

32MV402X

26MV402X

22MV402X



*Thank you for choosing
Magnavox.*

Need help fast?

*Read your Owner's Manual first for quick tips that make using your Magnavox product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at www.magnavox.com/support or call **1 866 341 3738** while with your product (and Model / Serial number)*



Gracias por escoger Magnavox.

Necesita ayuda inmediata?

*Lea primero el Manual del Propietario, en donde encontrará consejos que le ayudarán a disfrutar plenamente de su producto Magnavox. Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en www.magnavox.com/support o llame al teléfono **1 866 341 3738** y tenga a mano el producto (y número de model / serial)*



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*Manuel du Propriétaire regorgent d'astuces destinées à simplifier l'utilisation de votre produit Magnavox. Toutefois, si vous ne parvenez pas à résoudre votre problème, vous pouvez accéder à notre aide en ligne à l'adresse www.magnavox.com/support ou formez le **1 866 341 3738** Veillez à avoir votre produit à portée de main (et model / serial nombre)*

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Return your Product Registration Card or visit at www.magnavox.com/support today to get the very most from your purchase.

Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once **or visit at www.magnavox.com/support** to ensure:

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

Know these **safety** symbols



The caution marking is located on the rear or bottom of the cabinet.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

MAGNAVOX

Visit our World Wide Web Site at www.magnavox.com/support

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:

THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



Important Safety Instructions

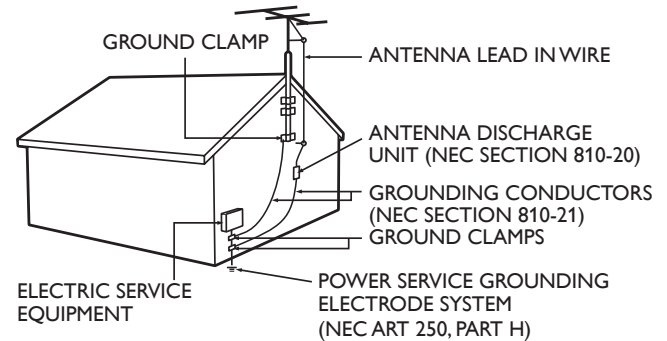
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer; or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Note to the CATV system installer:

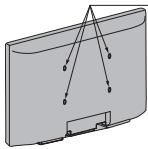
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC – National Electric Code



Wall Mount Bracket Kit

Brand: SANUS

	Model #	Screw dimension
22MV402X	SAN10b	M4 x 0.472" (12mm)
For 26 inch TVs, screws w/washers are required. (sold separately)		
26MV402X	SAN213b	M4 x 0.472" (12mm) + Washer 0.039" (T1mm)
 <div> <p>⚠ Do NOT use screws packed with Wall Mount Bracket Kit</p> <p>For 32 inch TVs, you need to purchase screws separately with dimensions described below.</p> </div>		
32MV402X	VM200s	M4 x 0.472" (12mm)

- The recommended Wall Mount Bracket Kit (sold separately) allows the mounting of the TV on the wall.
- For detailed information on installing the wall mount, refer to the Wall Mount Instruction Book.
- Funai is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV Wall Mount Bracket or mount the TV onto the Bracket on your own.
- The Wall Mount Bracket must be installed by experts.

Funai is not liable for these types of accidents or injury noted below.

- Install the Wall Mount Bracket on a sturdy vertical wall.
- If installed onto a ceiling or slanted wall, the TV and Wall Mount Bracket may fall which could result in a severe injury.
- Do not use screws that are longer or shorter than their specified length. If screws too long are used this may cause mechanical or electrical damage inside the TV set. If screws too short are used this may cause the TV set to fall.
- Do not fasten the screws by excessive force. This may damage the product or cause the product to fall, leading to an injury.
- For safety reasons use 2 people to mount the TV onto a Wall Mounting Bracket.
- Do not mount the TV onto the Wall Mounting Bracket while your TV is plugged in or Turned On. It may result in an electrical shock injury.

When installing the unit on the wall, allow this much space.

Top:	11.8 inches (30cm)
Left and right side:	5.9 inches (15cm)
Bottom:	3.9 inches (10cm)

1 Notice

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Funai reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

The material in this Owner's Manual is believed adequate for the intended use of the system. If the product or its individual modules or procedures are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Funai warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

Funai cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Funai will be adapted and published on the Funai support website as soon as possible.

Pixel characteristics

This LCD product has a high number of color pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Service Centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

Any operation expressly prohibited in this Owner's Manual, any adjustments or assembly procedures not recommended or authorized in this Owner's Manual shall void the warranty.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by Turning the equipment Off and On, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Declaration of Conformity

Trade Name: MAGNAVOX
 Responsible Party: FUNAI CORPORATION, Inc.
 Model: 32MV402X, 26MV402X, 22MV402X,
 Address: 19900 Van Ness Avenue, Torrance, CA 90501
 U.S.A.
 Telephone Number: 1 866 341 3738

Modifications

This apparatus may generate or use radio frequency energy. Changes or modifications to this apparatus may cause harmful interference unless the modifications are expressly approved in the Owner's Manual. The user could lose the authority to operate this apparatus if an unauthorized change or modification is made.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canadian notice

This Class B Digital apparatus complies with Canadian ICES-003. Standard Television Receiving Apparatus, Canada BETS-7/NTMR-7.

The following FCC/IC RSS-Gen is description of USB Wireless LAN adapter.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code Statement

For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that do not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided.

FCC Radiation Exposure Statement

This equipment is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This equipment should be installed and operated with minimum distance 2.5cm between the radiator & your body.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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SRS is a trademark of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc. SRS TruSurround XT® creates a truly immersive surround sound experience with rich bass and clear dialog from only two speakers.



ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Consumer Notice:

This TV has been set to maximize energy efficiency while delivering the best possible picture using the factory installed home mode settings. Changing or enabling other features in this TV (e.g. brightened backlighting) will possibly increase energy consumption beyond the original ENERGY STAR® qualified limits.



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VUDU™ is a trademark of VUDU, Inc.



YouTube and the YouTube logo are trademarks of Google Inc.

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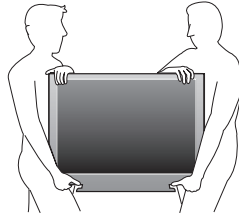
The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

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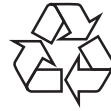
2 Important

Positioning the TV

- Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
- Make sure to hold the upper and bottom frames of the unit firmly as illustrated.
- Install the unit in a horizontal and stable position.
- Do not install the unit in direct sunlight or in a place subject to dust or strong vibration.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Avoid a place with drastic temperature changes.
- Do not place anything directly on top or bottom of the unit.
- Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Do not insert the AC power cord into the power socket outlet before all the connections are made.
- Ensure that you always have easy access to the AC power cord or plug to disconnect the TV from the power.
- Before you move the TV, disconnect attached cables to prevent damage to connectors.
- Be sure to unplug the AC power cord from the AC outlet before moving or carrying the unit.



Environmental care



The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging.

For product recycling information, please visit - www.magnavox.com

End of life directives



Magnavox pays a lot of attention to produce environment-friendly products in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

Disposal of used batteries


The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many areas batteries may not be disposed of with your household waste. Please ensure you dispose of batteries according to local regulations.

Regulatory notices

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

This apparatus should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

Make sure to leave a space of 4 inches (10cm) or more around this apparatus.

Press  to Turn the unit On and go into Standby mode.

To completely Turn Off the unit, you must unplug the AC power cord.

Disconnect the AC plug to shut the unit off when trouble is found or not in use. The AC plug shall remain readily available.

Never use a gas duster on this TV.

The gas trapped inside of this unit may cause ignition and explosion.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: Batteries (battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING: To prevent injury, this apparatus must be securely attached to the furniture/wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury/death.

3 Get started

Features

- **DTV/TV/CATV**
You can use your remote control to select channels which are broadcast in Digital format and conventional Analog format. Also, cable subscribers can access their cable TV channels.
- **Information display**
You can display the title, contents and other information of the current program on the TV screen.
- **AutoProgram**
This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.
- **Smart TV**
This unit lets you enjoy Internet services like Netflix and VUDU HD which deliver a cinema-like experience at home. You can play many more Apps services with VUDU apps.
- **Child lock**
This feature allows you to block children's access to inappropriate programs.
- **Closed Caption decoder**
Built-in Closed Caption decoder displays text for Closed Caption supported programs.
- **MTS/SAP tuner**
Audio can be selected from the remote control.
- **Auto Standby**
If there is no Input signal and no operation for 15 minutes, the unit will go into Standby mode automatically.
- **Sleep timer**
You can set the unit to go into Standby mode after a specific amount of time.
- **Choices for on-screen language**
Select your on-screen language: English, Spanish or French.
- **Stereo sound function**
- **PLL frequency synthesized tuning**
Provides free and easy channel selection and lets you tune directly to any channel using the number and decimal point "•" buttons on the remote control.
- **Various adjustment for picture and sound**
Customizes image quality suitable for your room and sets your sound preference.
- **fun-Link via HDMI link**
fun-Link allows your other HDMI link devices to be controlled by the HDMI cable connected to your TV.
- **HDMI Input**
- **HDMI-DVI Input**
If your video device has DVI Output jack, use an HDMI-DVI conversion cable to connect the unit.
- **Component Video Input**
- **PC Input**
- **AV Input**
- **USB terminal**
The picture (JPEG), music (MP3) and video files stored on a USB Memory Stick can be played back on this unit.
- **USB wireless network terminal**
Connects the supplied USB wireless LAN adapter.
- **Digital Audio Output**
- **Headphone Audio Output**

Supplied accessories

Owner's Manual



Quick Start guide



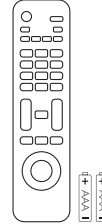
Registration card



Box-inserts



Remote Control and batteries (AAA, 1.5V x 2)



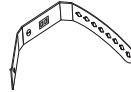
TV base and screws



Screws packed with this unit:

Model	Quantity	Size
32MV402X	3	M4 x 14
26MV402X		
22MV402X	2	

Cable management tie



USB wireless LAN adapter



Note

- If you lose the screws, please purchase the above-mentioned Phillips head screws at your local store.
- If you need to replace these accessories, please refer to the part name or No. with the illustrations and call our toll free customer support line found on the cover of this Owner's Manual.

When using a universal remote control to operate this unit.

- Make sure the component code on your universal remote control is set to our brand. Refer to the instruction book accompanying your remote control for more details.
- We do not guarantee 100% interoperability with all universal remote controls.

Symbols used in this Owner's Manual

The following is the description for the symbols used in this Owner's Manual. Description refers to:

Digital TV operation

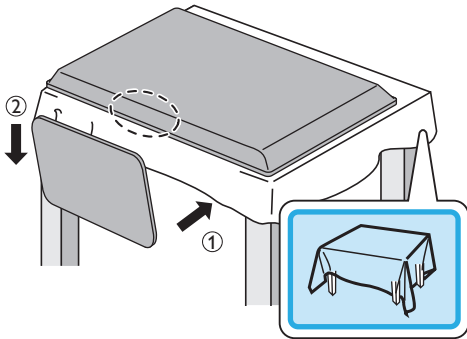
Analog/Cable TV operation

- If neither symbol appears, the operation is applicable to both.

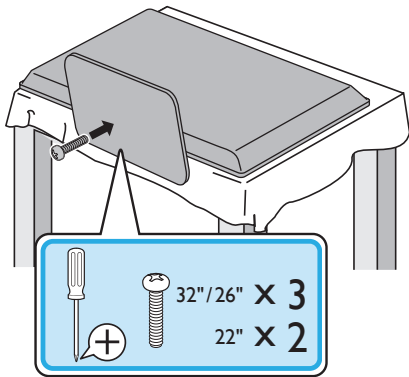
Attaching the base

You must attach the base to the unit to have it as a table top unit. Be sure the front and rear of the base match the proper direction. For large screen TVs, at least 2 people are required for these steps.

1



2



Note

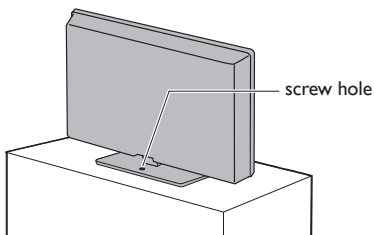
- Make sure to use a table which can support the weight of this unit and is larger than this unit.
- Make sure the table is in a stable location.
- When attaching the base, ensure that "FRONT" with "arrow" written on the bottom of the base is downward. If it's not downward, the 2 hooks don't fit into the base.
- When attaching the base, ensure that all screws are tightly fastened. If the base is not properly attached, it could cause the unit to fall, resulting in injuries as well as damage to the unit.
- To remove the base from this unit, unscrew the Phillips head screws in step 2. Be careful not to drop the base when you remove it.

Mounting the unit on your furniture

Screw this unit on your furniture tightly using wood screw (not supplied) in the hole at the back of the base as shown.

- Recommended screw dimension : 3/16 x 3/4 inches (5.1 x 20 mm)

rear of this unit



Note

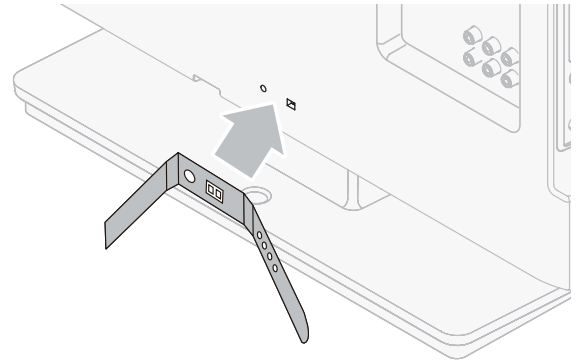
- When you remove this unit make sure to unscrew the wood screw from your Wood Stand, Furniture and other wood item.

Managing cables

Route your antenna cable and all other cables through the cable management tie at the back of the TV. The holder helps keep your cables tidy and easily manageable.

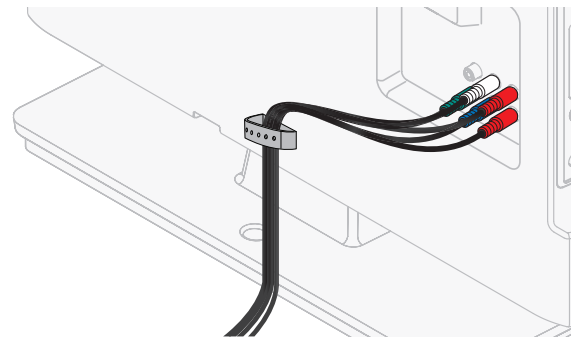
1

Attach the cable management tie as illustrated below.

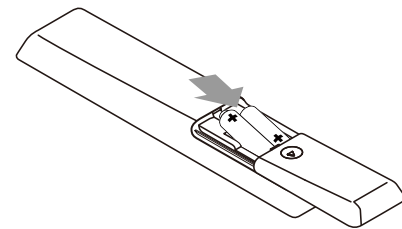


2

Pass cables through the cable management tie to avoid tangles.



Installing the remote control batteries



1

Slide the battery cover off the back of the remote control.

2

Insert the 2 supplied batteries (AAA, 1.5V). Be sure the + and - ends of the batteries line up with the markings inside the case.

3

Slide the cover back into position.

Note

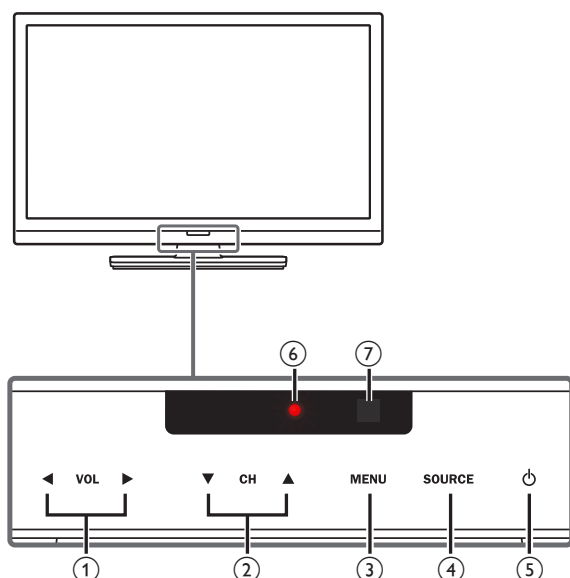
- Remove the batteries if not using the remote control for an extended period of time.

Remote control function



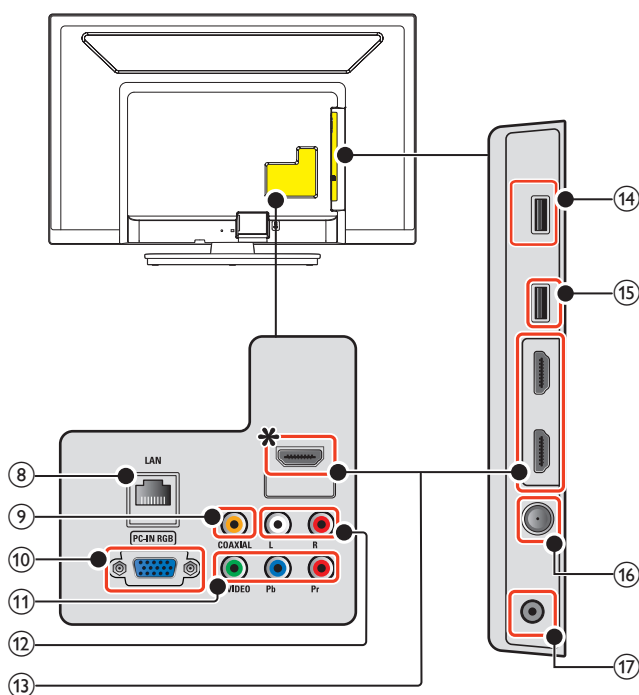
- ① **⏻ (POWER-ON / STANDBY-ON)**
Press to Turn the unit On and go into Standby mode.
To completely Turn Off the unit, you must unplug the AC power cord.
- ② **AUTO MODE**
Cycles through preset picture and sound settings.
- ③ **FAV**
Displays a list of all channels marked as favorite.
(Includes subchannels)
- ④ **0-9 (NUMBER buttons)**
Press to select channels.
• **(DOT)** Press to shift the subchannel from the main channel.
PREV.CH Press to return to the previously viewed channel.
CH +/- Press to select channels.
- ⑤ **VOL +/-**
Press to adjust the volume.
- ⑥ **🔇 (MUTE)**
Press to Turn the sound On and Off.
- ⑦ **BACK**
Press to return to the previous menu operation.
- ⑧ **OK**
Press to decide the command of setting when the Home menu is displayed.
- ⑨ **▲ ▼ ◀ ▶ (NAVIGATION buttons)**
Press to move left/right/up/down through the items.
- ⑩ **SOURCE**
Toggles to select connected devices.
- ⑪ **SLEEP**
Press to activate the sleep timer.
- ⑫ **FORMAT**
Selects a picture format.
- ⑬ **⏮/⏭** Press to skip backward or forward chapters, titles or tracks on a disc.
⏮/⏭ Press to search backward or forward through the disc.
OPTIONS Displays a list of menu items applicable to the highlighted object or screen.
■ Press to stop the disc playback.
⏸ Press to pause the disc playback.
▶ Press to begin or restart the disc playback.
- ⑭ **COLOR buttons**
Functionally useful for fun-Link.
- ⑮ **INFO**
Displays information about the TV channel or accessory device.
- ⑯ **🏠 (HOME)**
Press to display the Home menu.
- ⑰ **VUDU**
Press to call up VUDU start up screen.
- ⑱ **NETFLIX**
Press to call up Netflix start up screen.

Control panel



- ① **VOL ◀/▶**
Touch to adjust volume down (◀)/up (▶) or to move left (◀)/right (▶) when selecting menu items.
- ② **CH ▲/▼**
Touch to select channels or to move up (▲)/down (▼) when selecting menu items.
- ③ **MENU**
Touch to display the Home menu.
- ④ **SOURCE**
Touch to select the connected devices or to determine the setting when selecting menu items.
- ⑤ **⏻ (POWER-ON / STANDBY-ON)**
Touch ⏻ to Turn the unit On and go into Standby mode.
To completely Turn Off the unit, you must unplug the AC power cord.
- ⑥ **Power On indicator**
Lights up red when the unit is in Standby mode and flashes while the unit is Turning On.
- ⑦ **Infrared sensor**
Receives IR signals from remote control.

Terminals



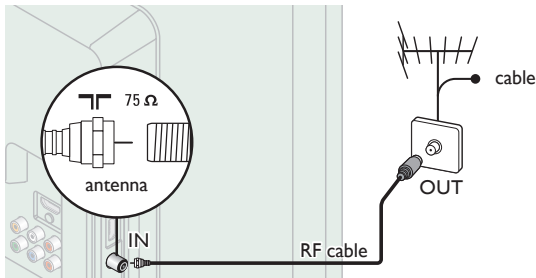
- ⑧ **Ethernet port**
For Internet connection using an Ethernet cable with an RJ-45 connector.
- ⑨ **Digital Audio Output jack**
Digital Audio (S/PDIF) Output to home theaters and other Digital Audio systems.
- ⑩ **PC Input jack**
VGA cable connection for PC.
- ⑪ **Component (Y/Pb/Pr) / Composite Video (VIDEO) Input jacks for VIDEO**
Composite Video Input (VIDEO) jack is shared jack with Component Video Input (Y) jack.
- ⑫ **Analog Audio (L/R) Input jacks**
Connects Analog Audio signals from;
 - HDMI-DVI / Analog Audio (L/R) jacks signal.
 - Component Video / Analog Audio (L/R) jacks signal.
 - Composite Video / Analog Audio (L/R) jacks signal.
 - PC Connection / Analog Audio (L/R) jacks signal with Stereo mini 3.5mm plug Audio cable on PC.
- ⑬ **HDMI Input jacks**
Digital Audio and video Input from high definition Digital devices such as Blu-ray disc players, cable boxes and satellite set-top boxes.
- * For HDMI 1 only
In addition to normal HDMI and HDMI-DVI functionality, it outputs TV Audio to an HDMI-ARC-compliant device, such as a home theater system.
- ⑭ **USB wireless network terminal**
Connects the supplied USB wireless LAN adapter.
- ⑮ **USB terminal**
Data Input from USB Memory Stick only.
Do not connect any device to this terminal such as; Digital camera, keyboard, mouse, etc.
- ⑯ **75 ohm Cable/Antenna connection**
Signal Input from an antenna, cable or satellite.
- ⑰ **Headphone Audio Output jack**
Headphone 3.5mm stereo jack for personal listening.

Connecting the antenna or the cable

Be sure your antenna or other device is connected properly before plugging in the AC power cord.

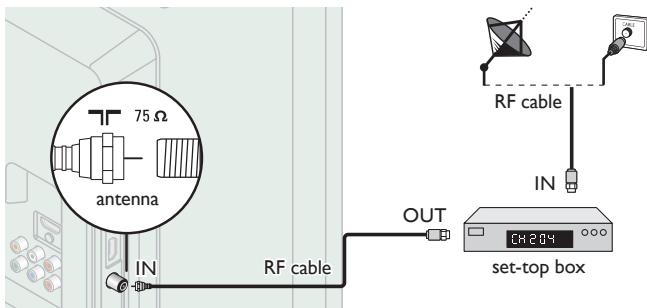
If you connect to an antenna through RF cable

Any DTV programs that are broadcast in your area can be received for free through an antenna connection.



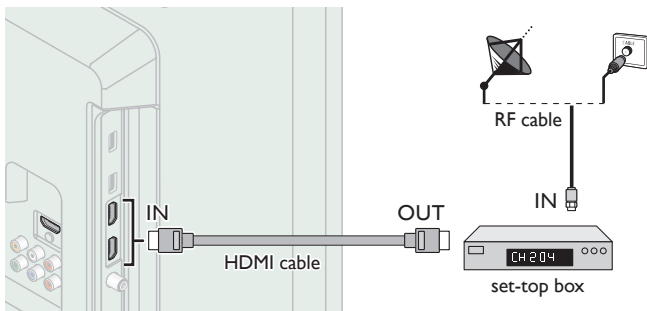
If you connect a set-top box through RF cable

If the TV is connected to a cable box or satellite set-top box via a coaxial connection, set the TV to channel 3, 4 or the channel specified by the service provider.



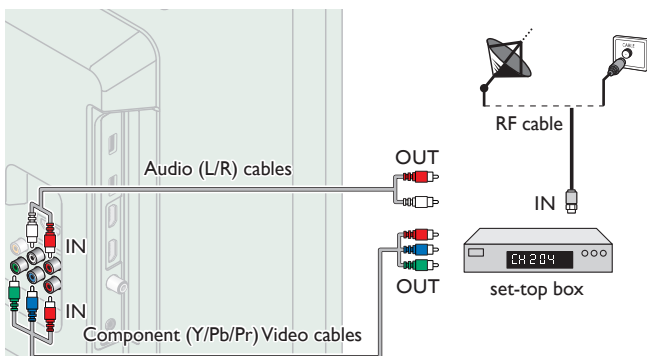
If you connect a set-top box through HDMI

If the TV is connected to a cable box or satellite set-top box via HDMI, make sure you select the correct Source by using **SOURCE**.



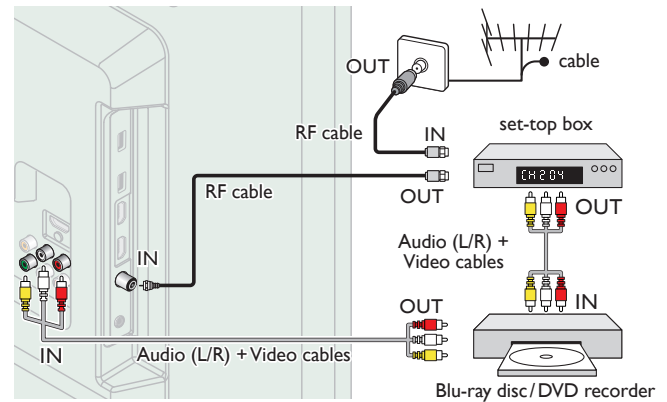
If you connect a set-top box through Component Video Input

If the TV is connected to a cable box or satellite set-top box via Component Video Input, make sure you select the correct Component Video Source by using **SOURCE**.



Connecting a set-top box, Blu-ray/DVD recorder via composite connectors and Analog Audio

Do not place your recorder too close to the screen because some recorders can be susceptible to signals.



Note

- If you have any question about the DTV's antenna, visit www.antennaweb.org for further information.
- Depending on your antenna system, you may need different types of combiners (mixers) or separators (splitters) for HDTV signal. The minimum RF bandpass on these devices is 2,000MHz or 2GHz.
- For your safety and to avoid damage to this unit, please unplug the RF coaxial cable from the antenna Input jack before moving the unit.
- If you did use an antenna to receive Analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than a set-top box or inside antenna.
- To Turn On your reception source easily between antenna and cable, install an antenna selector.
- If you are not receiving a signal from your cable service, contact the Cable provider.
- Only the left loudspeaker reproduces sound for mono equipment. Use a mono to stereo adapter (not supplied) for sound reproduction via all internal loudspeakers.

Plugging in the AC power cord

Make sure that the AC power cord must be plugged to an AC outlet after all the necessary connections are made.

Caution

- Do not connect the AC power cord to a power supply outside the indicated voltage of this unit (AC 120V).
- Connecting the AC power cord to a power supply outside of this range may result in fire or electrical shocks.

Note

- Each time you plug in the AC power cord, no operations will be performed for a few seconds. This is not a malfunction.






*These operations are accessible by remote control.
Some may also be accessible by control panel on the main unit.*

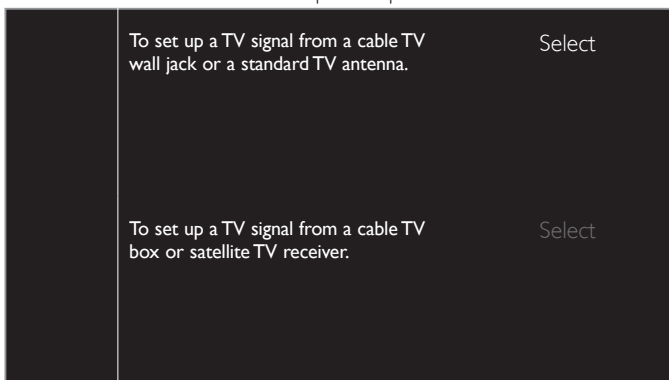
Initial setup


This section will guide you through the unit's initial setting which includes selecting a language for your on-screen menu, country, location and AutoProgram, which automatically scans and memorizes viewable channels. You can also set the network connection in this setting.

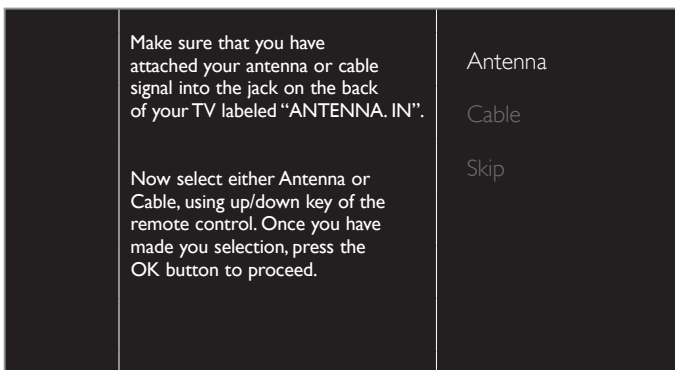
Before you begin:

Make sure the unit is connected to antenna or cable.

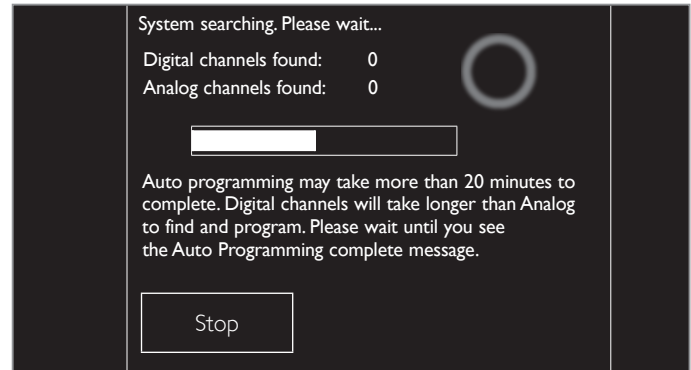
- 1 After making all the necessary connections, press  to Turn On the unit.
 - It may take a few moments to Turn On the unit for the first time.
 - Initial setup menu appears automatically after the unit is Turned On.
- 2 Use   to select the on-screen language, country, location on the right side of the TV screen, then press **OK**.
 - You must set **Home** in location setting. Otherwise, **Picture** and **Sound** settings you adjusted will not be memorized after the unit goes into Standby mode.
- 3 Use   to select the signal type.
 - If the TV is connected to a cable box or satellite set-top box, select the 2nd one and skip to step 5.



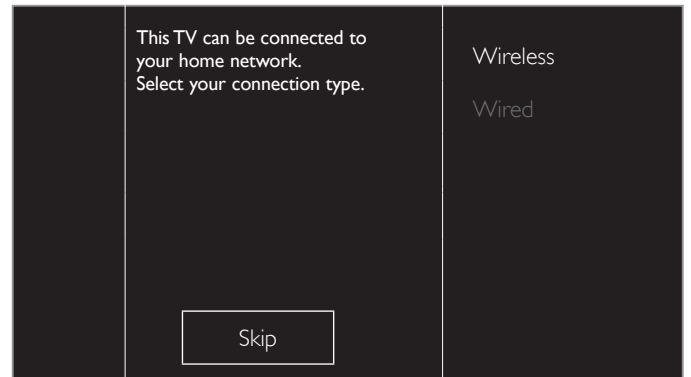
- 4 Use   to select **Antenna** for TV channels or **Cable** for CATV channels, then press **OK**.







- When **Antenna** is selected, the TV detects antenna signals. It searches for DTV and Analog TV channels available in your area.
- When **Cable** is selected, the TV detects signals supplied by cable. It searches for DTV, Analog TV and Cable channels available in your area.
 - **Autoprogram** will begin.





- 5 After the channel installation is completed, Network setup screen will appear. Use   to select **Wireless** or **Wired**, then press **OK**.



Wireless	If you have a Wireless router; select Wireless to connect to the Internet.
Wired	If you connect with an Ethernet cable, select Wired to connect to the Internet.

- If you have a router with WPS function, select **Wireless** and use   to select **Simple connect**, then press **OK**.
- 6 Follow the on-screen instructions to complete the installation.
 - When you select **On** in the selection screen of **Auto software update**. A message will appear if there is the latest software on the network server.
 - **Network updates** will appear after **Connection test** succeeds. Use   to select **Yes**, then press **OK**.
 - When the initial setup is completed, the lowest memorized channel with the confirmation message will be displayed on the TV screen.


Note

- If you are not receiving a signal from your cable service, contact the Cable provider.
- If you press  during AutoProgram, this setup of TV channels will be canceled.
- The initial AutoProgram function can be executed for either **Antenna** or **Cable** only once. When you change the connection (Antenna/ Cable), set **Autoprogram** again.

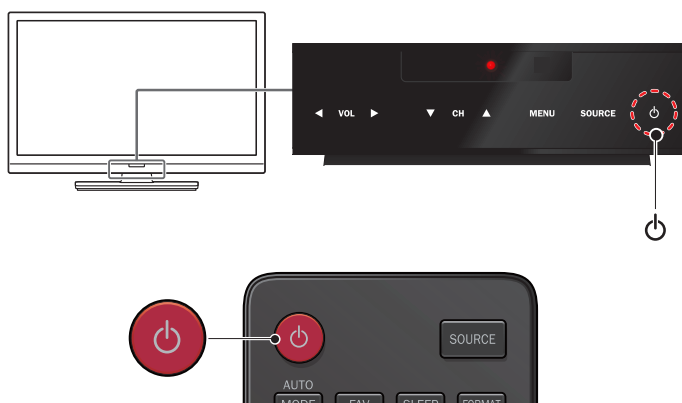
➡ p.28

After an initial setup is completed...

- If you want to scan the channels automatically again.
Autoprogram ➡ p.28
- You can add the desired cable and Analog channels unmemorized by AutoProgram.
Weak channel installation ➡ p.28
- If you want to change to another language.
Language ➡ p.27
- If you want to change the country setting.
Country ➡ p.15
- If you want to change the location setting.
Location ➡ p.29
- If you want to change the network setting.
Network ➡ p.31

4 Use your TV

Switching on your TV and putting it in Standby mode



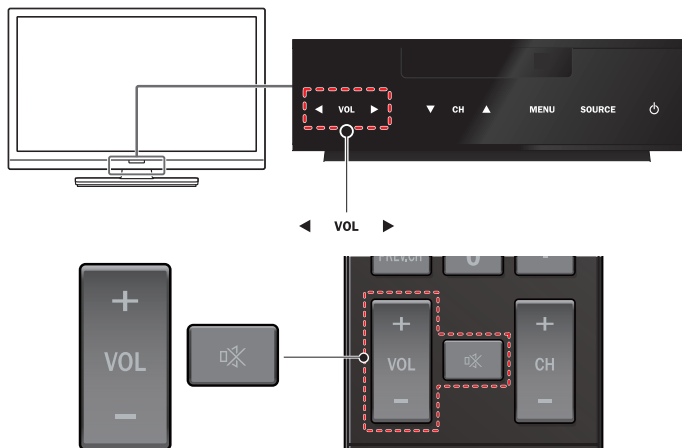
To Turn Power On or to Turn Standby On

- Touch or press on the front panel or the remote control.

Note

- Energy consumption contributes to air and water pollution. When the AC power cord is plugged in, your TV consumes energy. Your TV has very low Standby power consumption.

Adjusting volume



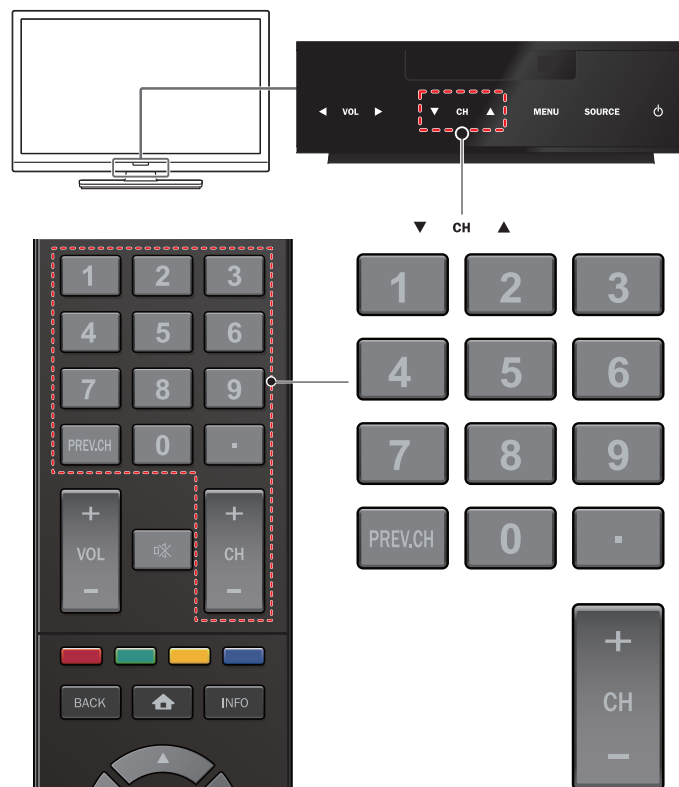
To increase or decrease volume

- Touch **VOL** (down)/ (up) on the front panel or press **VOL +/-** on the remote control.

To mute or unmute sound

- Press on the remote control to mute the sound.
- Press again or **VOL +/-** to recover the original sound.

Switching channels



To select Channels by using CH / or CH +/-

- Touch **CH** (up)/ (down) on the front panel or press **CH +/-** on the remote control.

To select Channels by using the NUMBER buttons

Digital TV operation

- For Digital channels, press a number followed by a dot "." and the corresponding sub channel number.
- When selecting Digital channel 11.1
Be sure to press • before entering the subchannel number.

→ → →

Analog/Cable TV operation

- When selecting cable or Analog channel 11

→

Press **PREV.CH** to return to the previously viewed channel.

Note

- To select the non-memorized channels, use the **NUMBER** buttons.
- **Channel not available** or **No Signal** will appear on the TV screen after the subchannel broadcast is over.
- **Audio only** message will appear on the TV screen, when you receive only sound signal.

Watching channels from an external device

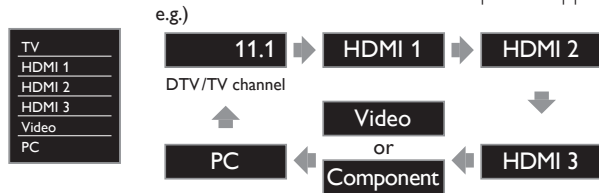
Switching Each Input Mode can easily switch with the remote control between TV (DTV or Analog TV) and external devices when they are connected to the unit.

- 1 Turn On a set-top box or the connected device.
 - The picture from your set-top box or the connected device might appear automatically on the TV screen.

If the picture does not appear



Press **SOURCE** repeatedly to select the set-top box or the connected device and wait a few seconds till the picture appears.



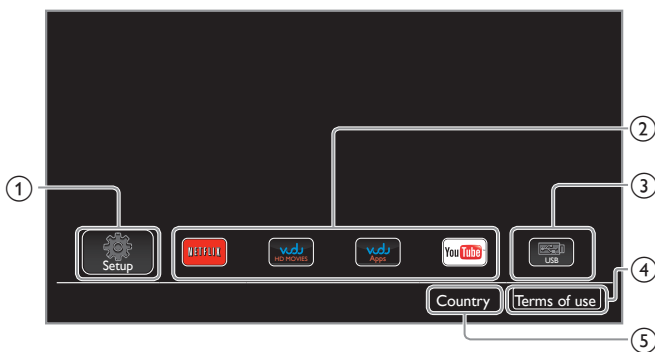
- Pressing ▲ reverses the direction of the Input modes.
- 2 Use the remote control of the set-top box or the connected device to select channels.

Access the Home menu

- 1 Press



Guide to Home menu



- ① Setup icon : Selects to display setup menu.
- ② Network service icons : Selects the desired network service.
- ③ USB icon : Selects to display USB menu.
- ④ Terms of use : Selects to display a clause of net service.
- ⑤ Country : Selects what country you live.

Note

- Network service icons may differ according to country you set.
- VUDU can only be viewed in the USA, Canada and Mexico.
Netflix (version 3.0) equipped with this unit is applicable in the USA and Canada only.

Smart TV

Smart TV offers Internet services for your TV. Use the remote control to browse the Smart TV pages. You can play movies and much more, all from your TV screen.

- Because Smart TV is an online system, it can be modified over time to better serve its purpose.
- Some Smart TV services can be added, changed or stopped after some time.
- You cannot download and save files or install plug-ins.

Before Logging in to Smart TV

Follow the procedure below before logging in to Smart TV.

- 1 Connect this unit to the Internet.
- 2 Set up the necessary network connection settings. **Network** **p.31**

Logging in to Smart TV

- 1 Press .
 - Home Menu screen will appear; then use ▲▼◀▶ to select service icon.
 - For the first time only, **Magnavox Terms of Use Internet Enabled product** screen will appear. After confirming the content, use ◀▶ to select **Agree**, then press **OK**.

Using auto mode

- 1 Press **AUTO MODE** to set your TV to a predefined picture and sound setting.



- 2 Use ▲▼ to select one of the following settings:

Auto picture	Auto sound	Description
Personal		The customized settings you defined using the Picture and Sound menu
Vivid		Enhanced picture contrast, sharpness and sound for viewing in a well-lit room
Sports		Brilliant picture settings and clear sound for high action
Standard		For normal TV viewing
Movie		Deep picture and powerful sound settings for a cinematic experience
Game	-	Optimized for PCs and game consoles
Internet video	-	Optimized for low bitrate Internet video
Power saver	-	Eco TV settings for low power consumption
-	Music	Optimized for music playback
-	News	Controls picture tone and set the anchor's voice at a comfortable volume

Create and use lists of favorite channels

You can create lists of your preferred TV channels so that you can find those channels easily.

Select a list of favorite channels

- 1 Press **FAV**.



- 2 Your lists of favorite channels are displayed.
- 2 Use **▲▼** to select the desired list, then press **OK**.

Create or edit a list of favorite channels

- 1 Press **FAV** to display your lists of favorite channels.
- 2 Use **▲▼** to select the desired list, then press **OK**.
- 3 Press **OPTIONS** to enter edit mode.
 - A list of channels is shown.
- 4 Use **▲▼** to select the desired channel, then press **OK** to add or remove on the list of favorite channels.
 - ☒ indicates that the channel is added.
 - ☐ indicates that the channel is removed.
- 5 Press **HOME** to exit.

Switch to one of the channels on a list

- 1 Press **OK** to display the last list that you selected.
- 2 Use **▲▼** to select a channel, then press **OK**.
 - The TV switches to that channel.



Note

- Press **CH +/-** to select channels in a list or press the **NUMBER** buttons to select channels that are not in a list.

Sleep timer

Sleep timer can set the unit to go into Standby mode after an incremental period of time.



- Press **SLEEP** repeatedly to change the amount of time (increases the time by 5 minutes up to 180 minutes).
- Each press of **◀** will decrease the time by 5 minutes.
 - Press **INFO** once to call up the display for checking the remaining time.
 - To cancel sleep timer, press **SLEEP** or **◀▶** repeatedly until "0" is displayed.

fun-Link options

If you have our brand products such as Blu-ray disc player or DVD recorder that are compatible with fun-Link functions, connect them to this unit via an HDMI cable so you can simply operate various items from this unit's remote control.

Before you begin:

You must set **On** in **Device control** and **fun-Link control**. ►► p.30

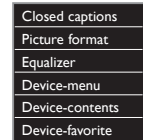
Otherwise, **OPTIONS** does not work even if you connected our brand devices to this unit.

To enjoy fun-Link, verified and recommended devices are as follows;

MAGNAVOX

MBP1300 MBP5320 MRD430B MRD733B

- 1 Press **OPTIONS** to display fun-Link options menu.



Closed captions	Changes the settings of Closed Caption.
Picture format	Changes the settings of display mode.
Equalizer	Changes the level of tonal quality.
Device-menu	Controls the menu of your connected fun-Link device.
Device-contents	Controls the top menu of your Blu-ray discs or DVDs.
Device-favorite	Controls the pop-up menu of your Blu-ray discs.

- 2 Use **▲▼** or **OK** on this unit's remote control to operate the desired functions for your devices.



Note

- Some of fun-Link functions may not be available depending on your fun-Link devices or discs.
- You must connect this unit to our brand fun-Link devices and be sure its fun-Link (HDMI CEC) setting is also set to On.
- We do not guarantee 100% interoperability with other brands of HDMI link compliant devices.

Changing picture format

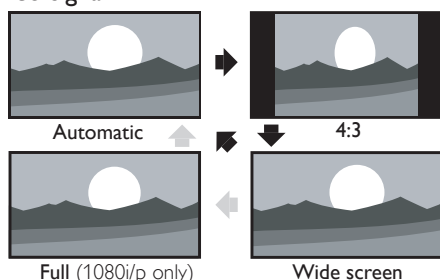
Display modes can be selected when your TV receives a 16:9 or 4:3 video signal.

Three types of display modes can be selected for a PC Input signal.

Press **FORMAT** repeatedly to switch the TV aspect ratio.

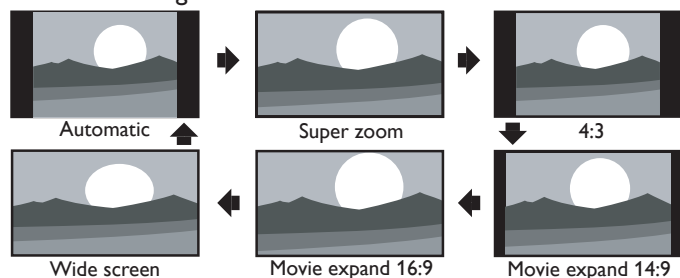


For 16:9 video signal



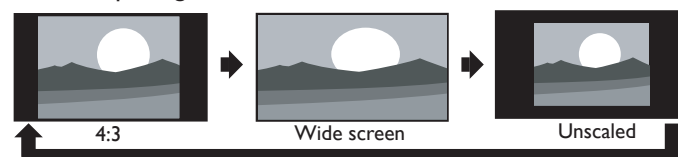
Automatic	Other than DTV and HDMI connected devices, enlarges the picture to best fit the screen. DTV and HDMI connected devices display the picture at its original size. The subtitles may remain visible.
4:3	Displays a 16:9 picture at a 4:3 size; the picture is shortened horizontally. Sidebars appear on both edges of the screen.
Wide screen	Displays a 16:9 picture that is stretched horizontally and vertically.
Full (1080i/p only)	Displays a 16:9 picture at its original size.

For 4:3 video signal



Automatic	Other than DTV and HDMI connected devices, enlarges the picture to best fit the screen. DTV and HDMI connected devices display the picture at its original size. The subtitles may remain visible.
Super zoom	Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically and its left and right edges are enlarged. This crops out the top and bottom of the picture.
4:3	Displays a 4:3 picture at its original size. Sidebars appear on both edges of the screen.
Movie expand 14:9	Displays a 4:3 picture at a 14:9 size; the picture is stretched horizontally and vertically. This crops out the top and bottom of the picture. Sidebars appear on both edges of the screen.
Movie expand 16:9	Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically. This crops out the top and bottom of the picture.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.

For PC Input signal



- This unit can also be connected to your PC that has a DVI terminal. Use an HDMI-DVI conversion cable for this Video connection and it requires Stereo mini 3.5mm plug Audio cable for Analog Audio signal as well.
- Refer to 16:9 video signal on this page if PC has HDMI Output.

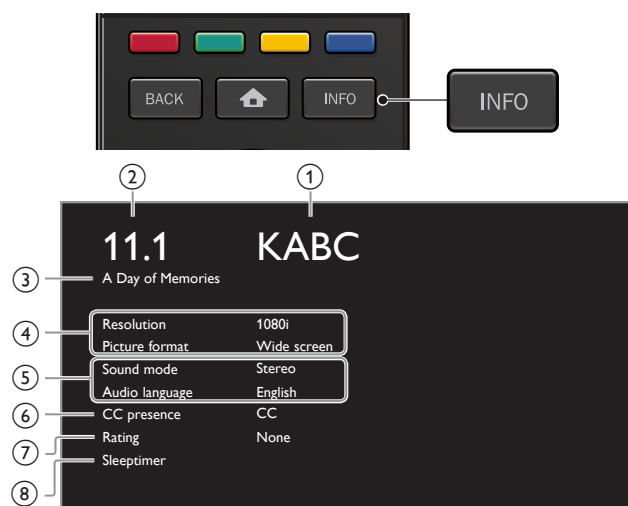
4:3	Displays a proportionately stretched picture. Sidebars appear on both edges of the screen.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.
Unscaled	Displays a picture in its original size.

TV screen information

You can display the currently selected channel or other information such as the aspect ratio on the TV screen.

In the Digital mode, the detailed broadcasting information for the current off-the-air channel such as program title and program guides are displayed.

1 Press INFO.



- ① broadcast station
- ② channel number/Input mode
Switching channels ➡ p.14
Watching channels from an external device ➡ p.15
- ③ program title (for DTV only)
- ④ program's image aspect ratio
Changing picture format ➡ p.17
- ⑤ audio language (DTV)/audio mode (Analog TV)
Sound ➡ p.23
- ⑥ CC (not available if Closed Caption is set to Off)
Caption settings ➡ p.24
- ⑦ child lock rating
Child and ratings lock ➡ p.25
- ⑧ remaining time of sleep timer
Sleep timer ➡ p.25

2 Press INFO to hide the information.

Note

- While the program guide is displayed, the Closed Caption function is interrupted.
- The information display will automatically disappear in 5 seconds.

USB

Your TV is fitted with a USB connection that enables you to view photos, listen to music or watch video files stored on a USB Memory Stick.

- 1 Connect the USB Memory Stick to the USB terminal on the side of your TV.
- 2 Press **HOME** and use **▲▼◀▶** to select **USB**, then press **OK**.



- 3 Use **▲▼** to select the **Picture**, **Music** or **Video**, then press **OK**.
 - The files recorded under the following specifications are required.
 - Press **OPTIONS** to display the optional menu, then press **OK** to switch between **List** and **Thumbnails**.

Picture (JPEG)					
Upper limit	16Mpixel				
Music (MP3)					
Sampling frequency	32 kHz, 44.1 kHz or 48 kHz				
Constant bit rate	32 kbps - 320 kbps				
Video					
Maximum size of a video	1920 × 1080				
Extension	.mpg, .mpeg	.vob	.avi	.mp4	.wmv
<div>Video codec</div> <div>Audio codec</div>	MPEG1, MPEG2	MPEG2	MPEG4 SP MPEG4 ASP	H.264, MPEG4	WMV9 (WVC1)
AC3	YES	YES	YES	NO	NO
MPEG1 audio layer3 (MP3)	YES	NO	YES	NO	NO
MPEG1 audio layer2	YES	NO	YES	NO	NO
LPCM	YES	NO	NO	NO	NO
AAC-LC	NO	NO	NO	YES	NO
WMA	NO	NO	NO	NO	YES

Note

- Up to 2GB (FAT16) or 8GB (FAT32) capacity can be supported.
- Up to 10,000 files or 1,000 folders with 19 hierarchies can be recognized.
- Up to 255 English characters can be recognized.
- This unit does not support MTP(Media Transfer Protocol).
- This unit supports FAT16 and FAT32 file systems.
- If the file is not supported, an error message appears.
- When the USB Memory Stick is not recognized, try reconnecting it again.
- We cannot be held responsible if your USB Memory Stick is not supported, nor will we accept any liability for damage or loss of stored data.
- A file name exceeding 128 characters or contains a dot character is not supported on this TV.
- Progressive JPEG files are not supported.

Picture (JPEG)

- 1 Use **▲▼** to select a file or a folder:



- 2 Press **OK** or **▶** to start a Slide show of the files.
 - Press **OK**, **▶** or **||** to pause the Slide show. The **||** icon appears.
 - Press **◀▶** or **▶▶** to move between images.
 - Press **BACK** or **■** to stop the Slide show.
 - Press **OPTIONS** to display the optional menu, then use **▲▼** to select the desired item.

Slide time ^{*1}	Short	Switches to the next image in 5 seconds.
	Medium	Switches to the next image in 10 seconds.
	Long	Switches to the next image in 15 seconds.
Transitions ^{*1}	None	No effect when switching images.
	Dissolve	Overlaps a next image on a current image.
	Wipe right	Pushes a current image out from left.
	Wipe left	Pushes a current image out from right.
	Wipe up	Pushes a current image out from bottom.
	Wipe down	Pushes a current image out from top.
	Box in	A next image comes into the center from out.
	Box out	A next image goes to the out from center.
Auto picture	Selects the picture mode according to your preference. (Vivid, Sports, Standard, Movie, Game, Internet video and Power saver)	
Rotate ^{*2}	0	Displays an image at its original direction.
	90	Rotates an image clockwise by 90 degrees.
	180	Rotates an image clockwise 180 degrees.
	270	Rotates an image clockwise 270 degrees.
Zoom ^{*2}	1x	Displays an image at its original size.
	2x	Magnifies a current image by 2 times.
	4x	Magnifies a current image by 4 times.

^{*1} You can set **Slide time** and **Transitions** when images are in Slide show.

^{*2} You can set **Rotate** and **Zoom** when Slide show is in Pause mode.

Music (MP3)

1 Use ▲▼ to select a file or a folder.



- 2 Press **OK** or ► to play the selected files.
- Press **OK**, ► or || to pause, then press **OK**, ► or || again to resume.
 - Press ►► to skip to the next file.
 - Press ◀◀ to return to the beginning of the file currently playing.
 - Press ■ to stop playback.
 - Press **OPTIONS** to display the optional menu, then use ▲▼ to select the desired item.

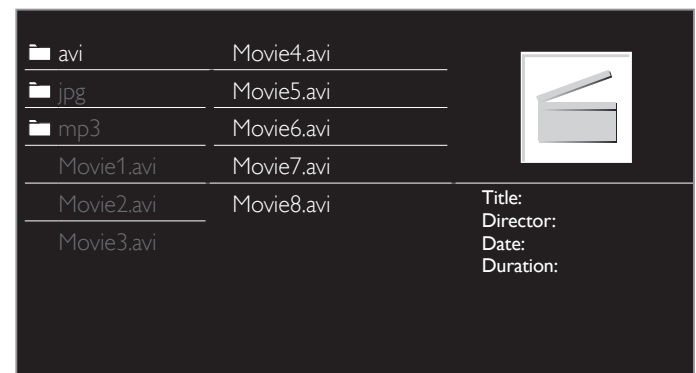
Repeat	Off	Sets repeat playback to Off.
	On	Sets repeat playback for all MP3 files in the current folder.
Shuffle	Off	Sets shuffle playback to Off.
	On	Sets shuffle playback for all MP3 files in the current folder.
TV speakers	Off	The sound will not be output from the unit's speakers.
	On	The sound will be output from the unit's speakers.
	CEC Link	You can control Audio Output from your connected fun-Link Compliant Devices with VOL +/- by using this unit's remote control.
Auto sound	Selects the sound mode according to your preference. (Standard, Vivid, Sports, Movie, Music and News)	

Note

- TV speakers will be displayed only when fun-Link control is set to On. fun-Link (HDMI CEC) ►► p.30

Video

1 Use ▲▼ to select a file or a folder.








- 2 Press **OK** or ► to play the selected files.
- Press **OK**, ► or || to pause, then press **OK**, ► or || again to resume.
 - Press ►► to fast-forward search.
 - Press ◀◀ to fast-backward search.
 - Press ■ to stop playback.
 - Press ► to resume from the point at which playback was stopped. Press **OK** to play from the beginning of the file.
 - Press **OPTIONS** to display the optional menu, then use ▲▼ to select the desired item.

Subtitle	Not available	Displays if no subtitle is available.
	Subtitle Off	Sets subtitle to Off.
	Subtitle 1-8	Selects the desired subtitle if the Video file contains them.
Audio language	Not available	The unit displays if no Audio language is available.
	Audio 1-8	Selects the desired Audio language if the Video file contains them.
TV speakers	Off	The sound will not be output from the unit's speakers.
	On	The sound will be output from the unit's speakers.
	CEC Link	You can control Audio Output from your connected fun-Link Compliant Devices with VOL +/- by using this unit's remote control.
Auto picture	Selects the picture mode according to your preference. (Vivid, Sports, Standard, Movie, Game, Internet video and Power saver)	
Auto sound	Selects the sound mode according to your preference. (Standard, Vivid, Sports, Movie, Music and News)	

Note

- The resume information will be kept even when the unit is Turned Off.
- If you play another file while the previously viewed file is being resumed, the resume information of the previously viewed file will be deleted.
- The file or the folder in resume stop mode will be highlighted in gray on List or Thumbnails.
- TV speakers will be displayed only when fun-Link control is set to On. fun-Link (HDMI CEC) ►► p.30

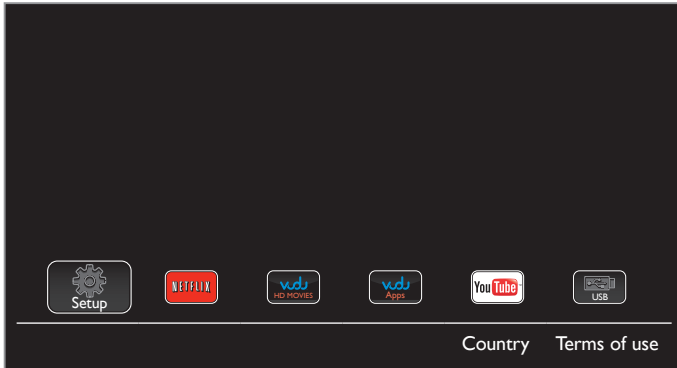
5 Use more of your TV







This section describes the overview of the **Setup** menu displayed when you press  and use     to select **Setup**. The **Setup** menu consists of the function setting items below.

- 1 Press  to display Home menu.



- 2 Use     to select **Setup**, then press **OK**.



- 3 Use   to select the desired menu and an item, then press **OK** or use     to determine the setting.

Picture	Auto picture	Personal
Sound	Backlight	
Features	Contrast	
Installation	Brightness	
Software	Color	
	Tint	
	Sharpness	
	Advanced picture	Color alignment

Picture

➡ p.21

Adjusting the picture mode or customize the picture quality as your preference.

Sound

➡ p.23

Adjusting the sound mode, equalizer and some other sound functions.

Features

➡ p.24

Adjusting the Closed Caption, parental guide and some other useful functions.

Installation

➡ p.27

You can choose language, scan the channels available in your area or make the Network settings.

Software

➡ p.34

You can check the current software version, update the software or deactivate the setting for Netflix and VUDU.

- 4 When the setting is completed, press  or **BACK** to exit.

Picture

Before you begin:

You must set **Home** in **Location**. ►► p.29

Otherwise, personalized picture and sound settings will not be memorized after the unit goes into Standby mode.

- 1 Press **Home** and use **▲▼◀▶** to select **Setup**, then press **OK**.
- 2 Use **▲▼** to select **Picture**, then press **OK**.

Picture	Auto picture	Personal
Sound	Backlight	
Features	Contrast	
Installation	Brightness	
Software	Color	
	Tint	
	Sharpness	
	Advanced picture	Color alignment

- 3 Use **▲▼◀▶** to select the item you want to adjust, then press **OK**.
 - The following picture settings can be configured. Depending on the format of the picture Source, some picture settings are not available.

Auto picture	to select the desired setting, then press OK (Personal , Vivid , Sports , Standard , Movie , Game , Internet video and Power saver) When you adjust the following settings, Personal will be set automatically.	
	Cursor ◀	Cursor ▶
Backlight	to reduce power consumption	to set the backlight brighter
Contrast	to decrease contrast	to increase contrast
Brightness	to decrease brightness	to increase brightness
Color	to decrease color intensity	to increase color intensity
Tint	to add green	to add red
Sharpness	to soften	to sharpen

* Advanced picture	to select the desired setting, then press OK (Color alignment , Noise reduction , Black stretch , Dynamic contrast , Gamma , MPEG artifact reduction , Color enhancement , Custom color management and Film mode)	
Picture format	Automatic	Changing picture format ►► p.17
	Super zoom	
	4:3	
	Movie expand 14:9	
	Movie expand 16:9	
	Wide screen	
	Unscaled	
Mode selection	PC	to Turn Off image enhancement features which makes the TV to act purely as a monitor
	HDTV	to enable image enhancement features to improve picture quality
Auto adjustment	to adjust the horizontal/vertical position, clock and phase of the PC screen automatically	

	Cursor ◀	Cursor ▶
Clock	to decrease setting value	to increase setting value
Phase		
Horizontal shift	to move PC screen left	to move PC screen right
Vertical shift	to move PC screen down	to move PC screen up

Continued on next page.

*You can set a particular about picture quality in Advanced picture.

Auto picture	Color alignment	Mode
Backlight	Noise reduction	Minimum
Contrast	Black stretch	On
Brightness	Dynamic contrast	Off
Color	Gamma	
Tint	MPEG artifact reduction	Off
Sharpness	Color enhancement	Off
Advanced picture	Custom color managem	Red

Color alignment	Mode	to set the color temperature to Personal , Cool , Normal and Warm When you adjust the following settings, Personal will be set automatically.	
		Cursor ◀	Cursor ▶
	Red gain	to decrease contrast with red	to increase contrast with red
	Green gain	to decrease contrast with green	to increase contrast with green
	Blue gain	to decrease contrast with blue	to increase contrast with blue
	Red offset	to decrease brightness with red	to increase brightness with red
	Green offset	to decrease brightness with green	to increase brightness with green
	Blue offset	to decrease brightness with blue	to increase brightness with blue
Noise reduction	to select the desired setting, then press OK (Off , Minimum , Medium , Maximum and Auto)		
Black stretch	to select the desired setting, then press OK (Off , Minimum , Medium and Maximum)		
Dynamic contrast	to select the desired setting, then press OK (Off , Minimum , Medium and Maximum)		
Gamma	Cursor ◀	Cursor ▶	
	to adjust the gamma encoding of images		
MPEG artifact reduction	to select the desired setting, then press OK (Off , Minimum , Medium and Maximum)		
Color enhancement	Off	to set color enhancement to Off	
	On	to make colors more vivid and bright	

Custom color management	to select the desired setting, then press OK (Red , Yellow , Green , Cyan , Blue and Magenta)		
		Cursor ◀	Cursor ▶
	Tint	to rotate only selected color tint in clockwise direction	to rotate only selected color tint in counterclockwise direction
	Saturation	to decrease color with only selected color	to increase color with only selected color
Film mode	Brightness	to decrease brightness with only selected color	to increase brightness with only selected color
	Off	to set film mode to Off	
	Auto	to optimize the picture recorded by the original film	

Note

- **Mode selection** is available only if
 - the external Input modes are selected HDMI 1, HDMI 2 or HDMI 3.
 - the connected HDMI device is outputting a video signal.

Sound

Before you begin:

You must set **Home** in **Location**. ► p.29

Otherwise, personalized picture and sound settings will not be memorized after the unit goes into Standby mode.

- 1 Press and use to select **Setup**, then press **OK**.
- 2 Use to select **Sound**, then press **OK**.

Picture	Auto sound	Personal
Sound	Equalizer	Start now
Features	Balance	
Installation	Digital audio language	English
Software	SRS TruSurround XT	On
	AVL	Off
	TV speakers	On
	Delta volume	

- 3 Use to select the item you want to adjust, then press **OK**.

The following sound settings can be configured. Depending on the format of the broadcasting, some sound settings are not available.

Auto sound	to select the desired setting (Personal, Standard, Vivid, Sports, Movie, Music and News) When you adjust the following settings (Equalizer, SRS TruSurround XT and AVL), Personal will be set automatically.
------------	---

Adjust the tonal quality for each frequency.

Equalizer	Cursor	Cursor
	to adjust the each level of tonal quality Press BACK to go back to the previous menu.	

Adjust the speakers to suit your listening preference.

Balance	Cursor	Cursor
	to adjust the balance of the right and left speakers	

Digital TV operation

You can select the Audio language while your TV is receiving the Digital broadcasting.

Digital audio language	to select the language according to your preference. (It differs depending on the program.)
------------------------	--

Analog/Cable TV operation

You can select **Main** or **SAP** while your TV is receiving the Analog broadcasting that has the SAP (Second Audio Program).
(It differs depending on the program.)

Alternate audio	Main	to output main-audio
	SAP	to output second-audio program

Analog/Cable TV operation

When you set to **Main** in **Alternate audio** above, you can select **Mono** or **Stereo** if the Analog broadcasting is sending the MTS (Multichannel television sound).

Mono/Stereo	Mono	to output mono-audio
	Stereo	to output stereo-audio

This selects sound modes for more spatial or surround sound reproduction.

SRS TruSurround XT	Off	to set SRS TruSurround XT® to Off
	On	to set SRS TruSurround XT® to On

This function keeps a constant loudness differential between the TV commercials and the programs.

AVL	Off	to remove the auto volume leveling
	On	to reduce volume differences between the TV commercials and the programs

You can select the Audio Output from the unit's speakers or not. If your amplifier is HDMI link function compatible and connected by an HDMI cable to this unit, some sound operations such as volume up can be changed by using this unit's remote control. Make sure **fun-Link control** is set to **On**. ► p.30

TV speakers	Off	not to output sound from the unit's speakers
	On	to output sound from the unit's speakers
	CEC Link	to control Audio Output from your connected fun-Link Compliant Devices with VOL +/- by using this unit's remote control.

If a channel or Input device is too loud or too soft, navigate to that channel or Input device.

Delta volume	Cursor	Cursor
	to set a negative delta volume level as per your personal preferences	to set a positive delta volume level as per your personal preferences



Note

- **Alternate audio** and **Mono/Stereo** are not available when you watching TV programs with a cable box or satellite set-top box connected through an HDMI cable or Component/Composite Video cables.

Features

- 1 Press **Home** and use **▲▼◀▶** to select **Setup**, then press **OK**.
- 2 Use **▲▼** to select **Features**, then press **OK**.

Picture	Caption settings	Closed captions
Sound	Sleep timer	
Features	Child lock	Channel lock
Installation	Change PIN	Start now
Software		

- 3 Adjust the following items.

Caption settings

Closed Captioning displays the Audio portion of programming as text superimposed over the video.

- 1 Use **▲▼** to select **Caption settings**, then press **OK**.

Caption settings	Closed captions	Off
Sleep timer	Caption service	CC-1
Child lock	Digital caption service	CS-1
Change PIN	Digital caption options	Reset to default

Closed captions	Off	not to display the Closed Caption
	On	to display the Closed Caption
	On during mute	to display the Closed Caption when you set to mute

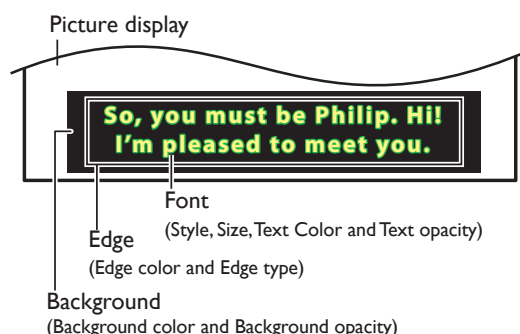
Digital TV operation

In addition to the basic Closed Caption, DTV has its own Closed Caption called Digital caption service. Use this menu to change the settings for Digital caption service.

Digital caption service	CS-1 to CS-6	Selects one of these before changing any other item in Caption settings menu. Choose CS-1 under normal circumstances.
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You can choose the size, font, color, background and other characteristics of the caption text.

Digital caption options	Reset to default	You can reset the status of Digital caption options.
		You can change Closed Captioning font size, style, color and transparency. (Size , Style , Text Color and Text opacity)
		You can change background color and transparency of the displayed caption. (Background color and Background opacity)
		You can change edge color and type of the displayed caption. (Edge type and Edge color)



- Review your setting choice made below by looking in the upper left corner of the displayed setting box (not all selections show the differences selected).

Analog/Cable TV operation

Caption service	CC-1 and T-1	The primary caption and text services. The captioning or text is displayed in the same language as the program's dialog (up to 4 lines of script on the TV screen).
	CC-3 and T-3	Serve as the preferred data channels. The captioning or text is often a secondary language.
	CC-2, CC-4, T-2 and T-4	Rarely available and broadcasters use them only in special conditions, such as when CC-1 and CC-3 or T-1 and T-3 are not available.

- There are 3 display modes according to programs:

Paint-on	Displays input characters on the TV screen immediately.
Pop-on	Once characters are stored in memory, they are displayed all at once.
Roll-up	Displays the characters continuously by scrolling (max. 4 lines).

Continued on next page.

Note

- **Digital caption service** that you can switch differs depending on the broadcast description.
- Closed Captioning service may not be controlled by this unit's menu options if you are watching television through an external cable or satellite set-top box. In which case you will need to use the menu options on the external set-top box to control Closed Captioning.
- The captions do not always use correct spelling and grammar.
- Not all TV programs and product commercials include Closed Caption information. Refer to your area TV program listings for the TV channels and times of Closed Caption shows. The captioned programs are usually noted in the TV listings with service marks such as **CC**.
- Not all captioning services are used by a TV channel during the transmission of a Closed Caption program.
- Closed Caption will NOT be displayed when you are using an HDMI or a Component (except for 480i) connection.
- To show the Closed Caption on your TV screen, broadcast signal must contain the Closed Caption data.
- Not all TV programs and commercials have the Closed Caption or all types of the Closed Caption.
- Captions and texts may not exactly match the TV voice.
- Changing channels may delay the Closed Caption for a few seconds.
- Adjusting or muting the volume may delay the Closed Caption for a few seconds.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a malfunction.
- The caption or text characters will not be displayed while the Home menu or functions display is shown.
- If a black box appears on the TV screen, this means that the Closed Caption is set to the text mode. To clear the box, select **CC-1**, **CC-2**, **CC-3** or **CC-4**.
- If the unit receives poor quality television signals, the captions may contain errors or there might be no captions at all. Some possible causes of poor quality signals are:
 - Automobile ignition noise
 - Electric motor noise
 - Weak signal reception
 - Multiplex signal reception (ghosts or screen flutter)
 - Data dropout and Pixelation (for DTV only)
- The unit retains the Closed Caption setting if the power fails.
- When the unit receives special effects playback signal (e.g. Search, Slow and Still) from a VCR's video Output channel (ch3 or ch4), the unit may not display the correct caption or text.

Child and ratings lock

You can prevent your children from watching certain programs or certain channels by locking the TV controls and by using ratings.

1 Use **▲▼** to select **Child lock**, then press **OK**.

Picture	Caption settings	Closed captions
Sound	Sleeptimer	
Features	Child lock	Channel lock
Installation	Change PIN	Start now
Software		

2 Use the **NUMBER** buttons to enter the 4-digit numbers for your PIN code.

- When you have not set up your PIN code, enter **0, 0, 0, 0**.
- When the PIN code is correct, **Child lock** menu is displayed.

See the following description for setting each item.

Caption settings	Channel lock	Select
Sleeptimer	TV ratings lock	Select
Child lock	Movie ratings lock	Select
Change PIN	Canada English ratings lo	Select
	Canada French ratings lo	Select
	Region ratings lock	Select

Sleeptimer

Sleep timer can set the unit to go into Standby mode after an incremental period of time.

- 1 Use **▲▼** to select **Sleeptimer**, then press **OK**.
- 2 Use **►** repeatedly to change the amount of time (increases the time by 5 minutes up to 180 minutes).
 - Each press of **◄** will decrease the time by 5 minutes.
 - Press **INFO** once to call up the display for checking the remaining time.
 - To cancel the sleep timer, press **►** repeatedly until "0" is displayed.

Note

- You can also press **SLEEP** directly to switch the desired setting. **▶▶▶ p.16**

Note

- When you select the higher rating and set it to **☒**, the lower ratings will be blocked automatically.
- When you set the **All** to **☐**, all ratings return to **☐** automatically.
- **Region ratings lock** will be available when the unit receives a Digital broadcast using the new rating system.
- To block any inappropriate programs, set your limits in **TV ratings lock**, **Movie ratings lock** and **Region ratings lock**.
- For the United States, the unit may download the Region Ratings Lock Table, if required.
- The Canadian rating systems on this unit are based on CEA-766-A and CRTIC policy.

Continued on next page.

Channel lock

Particular channels or external Input modes can be invisible in this function.

- 3 Use **▲▼** to select **Channel lock**, then press **OK**.
- 4 Use **▲▼** to select the particular channels or external Input, then press **OK** repeatedly to switch between view and block.
 - ☒ indicates that the channel or Input Source is locked.
 - ☐ indicates that the channel or Input Source is not locked.

Caption settings	Channel lock	<input type="checkbox"/> 40.1	DTV
Sleeptimer	TV ratings lock	<input checked="" type="checkbox"/> 40.2	DTV
Child lock	Movie ratings lock	<input checked="" type="checkbox"/> 40.3	DTV
Change PIN	Canada English ratings lo	<input checked="" type="checkbox"/> 40.4	DTV
	Canada French ratings lo	<input type="checkbox"/> HDMI 1	
	Region ratings lock	<input type="checkbox"/> HDMI 2	
		<input type="checkbox"/> HDMI 3	
		<input type="checkbox"/> Video	

Setting TV and movie ratings

Movie ratings lock is the rating system created by MPAA. TV ratings lock has controlled access to individual programs based on their age ratings and content rating.

- 3 Use **▲▼** to select **TV ratings lock** or **Movie ratings lock**, then press **OK**.
- 4 Use **▲▼** to select the desired rating, then press **OK** repeatedly to switch between view and block.
 - ☒ indicates that the rating is locked.
 - ☒ indicates that the sub rating is locked.
 - ☐ indicates that the rating is not locked.

TV ratings lock

Channel lock	<input type="checkbox"/> All
TV ratings lock	<input checked="" type="checkbox"/> None
Movie ratings lock	<input type="checkbox"/> TV-Y
Canada English ratings	<input type="checkbox"/> TV-Y7
Canada French ratings	<input type="checkbox"/> TV-G
Region ratings lock	<input type="checkbox"/> TV-PG
	<input type="checkbox"/> TV-14
	<input type="checkbox"/> TV-MA

Movie ratings lock

Caption settings	Channel lock	<input type="checkbox"/> All
Sleeptimer	TV ratings lock	<input checked="" type="checkbox"/> NR
Child lock	Movie ratings lock	<input type="checkbox"/> G
Change PIN	Canada English ratings lo	<input type="checkbox"/> PG
	Canada French ratings lo	<input type="checkbox"/> PG-13
	Region ratings lock	<input type="checkbox"/> R
		<input type="checkbox"/> NC-17
		<input type="checkbox"/> X

US movie ratings	US TV ratings	Description
All		All ratings locked including no rating
NR	None	No rating
–	TV-Y	Appropriate for all children
–	TV-Y7	Appropriate for all children 7 and older
G	TV-G	General audience
PG	TV-PG	Parental guidance suggested
PG-13	–	Unsuitable for children under 13
–	TV-14	Unsuitable for children under 14
R	–	Restricted under 17 requires accompanying parent or adult guardian
NC-17	–	No one under 17 admitted
X	TV-MA	Mature audience only

To set the sub ratings

For TV ratings lock, you can further set the sub ratings to block specific elements of programming. To set the sub ratings, follow the step below.

Use **▲▼◀▶** to select the desired rating, then press **OK** repeatedly to switch between ☒ and ☐.

Channel lock	<input type="checkbox"/> All	<input checked="" type="checkbox"/> Fantasy Violence
TV ratings lock	<input type="checkbox"/> None	
Movie ratings lock	<input type="checkbox"/> TV-Y	
Canada English ratings	<input checked="" type="checkbox"/> TV-Y7	
Canada French ratings	<input type="checkbox"/> TV-G	
Region ratings lock	<input type="checkbox"/> TV-PG	
	<input type="checkbox"/> TV-14	
	<input type="checkbox"/> TV-MA	

US TV ratings	Sub Rating
TV-Y7	Fantasy Violence
TV-PG	Dialog Language
TV-14	Sex Violence
TV-MA	Language Sex Violence

Note

- Blocked sub rating will appear beside the main rating category in **TV ratings lock** menu.
- You cannot block a sub rating if the main rating is set to ☐.
- Changing the category to ☒ or ☐ automatically changes all its sub ratings to the same (☒ or ☐.

Continued on next page.

Canada English or Canada French ratings

You can select the rating for Canada English or Canada French broadcasting.

- 3 Use ▲▼ to select **Canada English ratings lock** or **Canada French ratings lock**, then press **OK**.
- 4 Use ▲▼ to select the desired rating, then press **OK** repeatedly to switch between view and block.
 - ☒ indicates that the rating is locked.
 - ☐ indicates that the rating is not locked.

Canada English ratings lock	Canada French ratings lock	Description
All		Locked all ratings
E		Exempt program
C	–	For all children
C8+	–	For children over 8
G		General audience
–	8ans+	Unsuitable for ages under 8
PG	–	Parental guidance suggested
–	13ans+	Unsuitable for ages under 13
14+	–	Unsuitable for ages under 14
–	16ans+	Unsuitable for ages under 16
18+	18ans+	Adult audience only

Note

- The V-Chip can block non rated programs as per "CEA-608-E sec. L.3". If the option to block **NR**, **None** or **E** programs is used in **Movie ratings lock**, **TV ratings lock**, **Canada English ratings lock** or **Canada French ratings lock** accordingly "unusual results may occur and the unit may not receive emergency bulletins or other types of programming:"/Emergency Bulletins (Such as EAS messages, weather warnings and others)/Locally originated programming/News/Political/Public Service Announcements/Religious/Sports/Weather.

Change PIN

Although the default PIN code (0000) is supplied with the unit, you can set your own PIN code.

- 1 Use ▲▼ to select **Change PIN**, then press **OK**.
- 2 Press the **NUMBER** buttons to enter the new 4-digit PIN code.
 - Enter PIN code again to confirm.

Change PIN

Please enter your current PIN.

Note

- Make sure new PIN code and confirm PIN code must be exactly the same. If they are different, the space is cleared for reentering.
- If you have forgotten your PIN code, enter 0711 to reset the PIN code.

Installation

- 1 Press **Home** and use ▲▼◀▶ to select **Setup**, then press **OK**.
- 2 Use ▲▼ to select **Installation**, then press **OK**.

Picture	Language	English
Sound	Channels	Autoprogram
Features	Preferences	Location
Installation	Network	Network settings assi
Software	Reset AV settings	Start now

- 3 Adjust the following items.

Language

- 1 Use ▲▼ to select **Language**, then press **OK**.

Picture	Language	English
Sound	Channels	Français
Features	Preferences	Español
Installation	Network	
Software	Reset AV settings	

- 2 Use ▲▼ to select **English**, **Español** or **Français**, then press **OK**.

Note

- If you need the English menu instead of the Spanish or French menu's, press **Home**. Use ◀▶▲▼ to select **Configuración** or **Configuration**, then press **OK**. Use ▲▼ to select **Instalación** or **Installation**, then press **OK**. Use ▲▼ to select **Idioma** or **Langue**, then press **OK**. Use ▲▼ to select **English**, then press **OK**. Press **Home** to exit the Home menu.

Channel installation

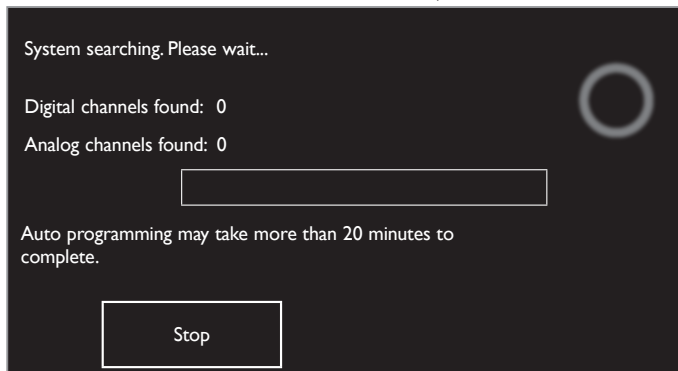
Be sure the RF cable is correctly connected to this unit and you are registered with your cable TV provider when you install cable channels.

Autoprogram

If you switch wires (e.g. between antenna and CATV) or if you move the unit to a different area after the initial setting, or if you restore the DTV channels you deleted, it is recommended to use AutoProgram to perform a new channel search.

You need to select the signal type in **Installation mode** before you perform AutoProgram.

- 1 Use ▲▼ to select **Channels**, then press **OK**.
- 2 Use ▲▼ to select **Autoprogram**, then press **OK**.
 - If you run **Autoprogram** when you have locked channels, a message appears asking to enter your PIN code. Enter your PIN code in order to complete the installation. You need to set the channel lock again after the installation.
- 3 Press **OK** to select **Start now**.
 - When the scanning and memorizing are completed, the lowest memorized channel will be displayed.
- 4 Follow the on-screen instructions to complete the installation.



Note

- After setting **Autoprogram**, using **CH +/-** skips unavailable programs automatically.
- If you are not receiving a signal from your cable service, contact the cable provider.
- If you press **⏻** or during AutoProgram, the setup of TV channels will be canceled.
- Even if **Autoprogram** is completed, the channel setting will be lost if the AC power cord is unplugged before the unit goes into Standby mode by pressing **⏻**.
- The PIN code will be required once you set a PIN code in the **Child and ratings lock**. ➡ p.25
- If you want to change your PIN code, follow the instruction of **Change PIN**. ➡ p.27

Weak channel installation

This function lets you add the channels that were not added by the AutoProgram due to the reception conditions during the initial setup. It is available only when you select Antenna in **Installation mode**.

- 1 Use ▲▼ to select **Channels**, then press **OK**.
- 2 Use ▲▼ to select **Weak channel installation**, then press **OK**.
 - The PIN code will be required if you have locked channels.
- 3 Use ◀▶ to select channel Input box, then use ▲▼ to select a channel you want to memorize.
- 4 Use ◀▶ to select **Search**, then press **OK**.
- 5 Display will be changed to **Store** from **Search** when the channel is found, then press **OK**.

Note

- In most cases, Digital channels are not broadcast on the RF channel on which they appear on your TV. To add Digital channels you need to know the RF channel on which the Digital channel is being broadcast. (e.g. If there is a Digital channel 9.1 which is being broadcast on RF channel 25, you need to enter 25 while performing a weak channel installation.) To find out the RF channel on which a particular Digital channel is being broadcast, please contact your local service provider. Installing Digital channels using **Weak channel installation** might not work for direct cable connections and if the Digital signal is too weak for the TV to process.

Installation mode

- 1 Use ▲▼ to select **Channels**, then press **OK**.
- 2 Use ▲▼ to select **Installation mode**, then press **OK**.
- 3 Use ▲▼ to select **Antenna** or **Cable**, then press **OK**.
 - When **Antenna** is selected, the TV detects antenna signals. It searches for DTV and Analog TV channels available in your area.
 - When **Cable** is selected, the TV detects signals supplied by cable. It searches for DTV Analog TV and Cable channels available in your area.

Uninstall channels

The channels selected here can be skipped when selecting the channels using **CH +/-**.

Those channels can still be selected with the **NUMBER** buttons.

- 1 Use ▲▼ to select **Channels**, then press **OK**.
- 2 Use ▲▼ to select **Uninstall channels**, then press **OK**.
- 3 Use ▲▼ to select the channel you want to remove, then press **OK**.
 - The removed channels are not displayed on the list of favorite channels.
 - To reactivate a removed channel, use ▲▼ then press **OK**.

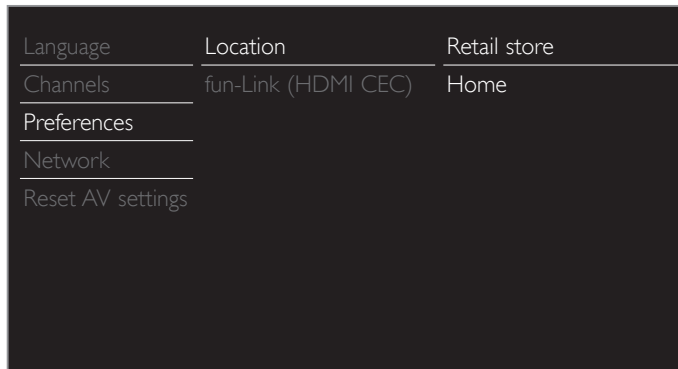
Preferences

You can set the unit to reduce the power consumption or adjust the backlight brightness in **Location** setting.
fun-Link allows you to operate your connected fun-Link device.

Setting your location to home

Choosing **Home** gives you full flexibility to change predefined settings for picture and sound.

- 1 Use ▲▼ to select **Preferences**, then press **OK**.
- 2 Use ▲▼ to select **Location**, then press **OK**.



- 3 Use ▲▼ to select **Home**, then press **OK**.

Retail store	The unit will be set up with predefined settings for retail displays. In this setting, the power consumption may possibly exceed the limit requirement of the ENERGY STAR® qualification.
Home	This setting is ENERGY STAR® qualified. The unit is set to maximize the energy efficiency for home setting and it can be adjusted through a choice of picture and sound quality according to your preference.

Note

- You must set **Home**. Otherwise, personalized picture and sound settings will not be memorized after the unit goes into Standby mode.
- If you select **Home**, E-sticker will not be displayed.

E-sticker

When you set **Location** to **Retail store**, E-sticker (Electronic Sticker) is displayed. E-sticker can be Turned Off using procedure below.

- 1 Use ▲▼ to select **Preferences**, then press **OK**.
- 2 Use ▲▼ to select **E-sticker**, then press **OK**.
- 3 Use ▲▼ to select **Off**, then press **OK**.

Use Magnavox fun-Link

Your TV supports Magnavox fun-Link, which enables one-touch play and one-touch Standby between fun-Link-compliant devices. Compliant devices must be connected via an HDMI connector.

One-touch play

When you connect your TV to devices that support one-touch play, you can control your TV and the devices with one remote control. For example, when you press ► (**play**) on your DVD remote control, your TV automatically switches to the correct channel to show the DVD content.

One-touch Standby

When you connect your TV to devices that support Standby, you can use your TV remote control to put your TV and all connected HDMI devices in Standby mode. You can perform one-touch Standby using the remote control from any of the connected HDMI devices.

System audio control

When you connect your TV to HDMI CEC compliant devices, your TV can switch automatically to play audio from the connected device. To use one-touch audio, you must map the audio input from the connected device to your TV. You can use the remote control from the connected device to adjust the volume.

HDMI-ARC (Audio Return Channel)

HDMI-ARC allows you to use Magnavox fun-Link to output TV audio directly to a connected Audio device, without the need for an additional Digital Audio cable. Be sure that the device is HDMI CEC and ARC compliant, and that the TV is connected to the device using an HDMI cable attached to both HDMI-ARC connectors.

Note

- Magnavox does not guarantee 100% interoperability with all HDMI CEC devices.
- The fun-Link-compliant device must be Switched On and selected as the source.

fun-Link (HDMI CEC)

This function allows you to operate the linked functions between our brand devices with a fun-Link feature and this unit connecting through an HDMI cable. You must connect this unit to our brand fun-Link devices and be sure its fun-Link (HDMI CEC) setting is also set to On.

- 1 Use ▲▼ to select **Preferences**, then press **OK**.
- 2 Use ▲▼ to select **fun-Link (HDMI CEC)**, then press **OK**.
- 3 Use ▲▼◀▶ to select the item you want to adjust, then press **OK**.

Location	fun-Link control	On
fun-Link (HDMI CEC)	Auto TV on	On
	Device control	Select
	HDMI-ARC	Off
	Device list	Select

Set the **fun-Link control** to **On** or **Off**. The following additional settings will be grayed out when you set to **Off**.

fun-Link control	Off	Disables all fun-Link.
	On	Selects if you have connected an external device that is compatible with the fun-Link function.

This unit will Turn On when the Power On signal is sent from your connected fun-Link device.

Auto TV on	Off	This unit stays in Standby mode even if you Turn On your connected fun-Link device.
	On	This unit Turns On automatically when you Turn On your connected fun-Link device.

You can operate some functions such as disc playback or call up the menu of the connected devices, by using this unit's remote control. You can set each HDMI input to activate the **Device control**. Each press of **OK** will toggle **Device control On** or **Off**.

- ☒ indicates that the **Device control** is **On**.
- ☐ indicates that the **Device control** is **Off**.

Device control	HDMI 1	PLAY ►/STOP ■/FWD ►►/REV ◀◀/SKIP ►►I/SKIP I◀◀/PAUSE II/OPTIONS/▲▼◀▶/OK/BACK/the NUMBER buttons/RED/GREEN/BLUE/YELLOW can be used to control your connected fun-Link devices by this unit's remote control.
	HDMI 2	
	HDMI 3	

HDMI-ARC allows you to use fun-Link to output TV Audio directly to a connected Audio device, without the need for an additional Digital Audio cable

HDMI-ARC	Off	Disable HDMI-ARC.
	On	You can output TV Audio through the HDMI cable solely, provided both the TV and device are HDMI-ARC compliant.

Device list

This function lets you see the product model number or name of connected devices.

Use ▲▼ to select the desired fun-Link device listed on the TV screen, then press **OK**.

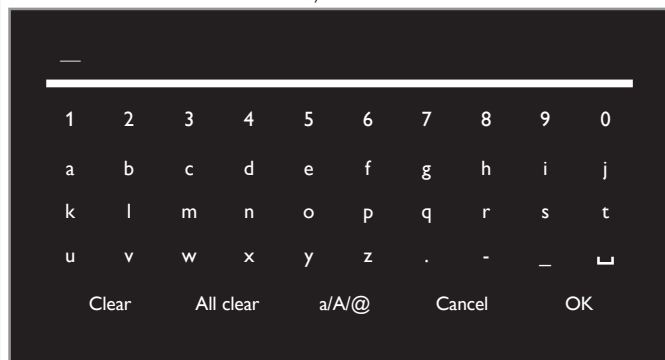
Your connected fun-Link device will be Turned On if the device is in Stand by mode.



Network

Set up network connection settings in order to use Smart TV or network upgrade function.

- The meanings of abbreviations are defined as below.
AP :Wireless LAN Access Point
WPS :Wi-Fi protected Setup
SSID :Wireless network name
- The key entry screen will appear when you select SSID, WEP/WPA/WPA2 or Proxy address.



- Enter the key of the selected wireless network using ▲▼◀▶, then press **OK**.
Clear : Clear the entered number or word.
All clear : Clear all the entered numbers or words.
a/A/@ : Switch between abc, ABC and @!?
Cancel : Shows the cancellation display.
OK : Set the entered number or word.

1 Use ▲▼ to select **Network**, then press **OK**.

Picture	Language	English
Sound	Channels	Autoprogram
Features	Preferences	Location
Installation	Network	Network settings assi
Software	Reset AV settings	Start now

Network settings assistant

Before you proceed to **Connection test** or other settings in **Network** section, set this selection to suit your preference.

2 Use ▲▼ to select **Network settings assistant**, then press **OK**.

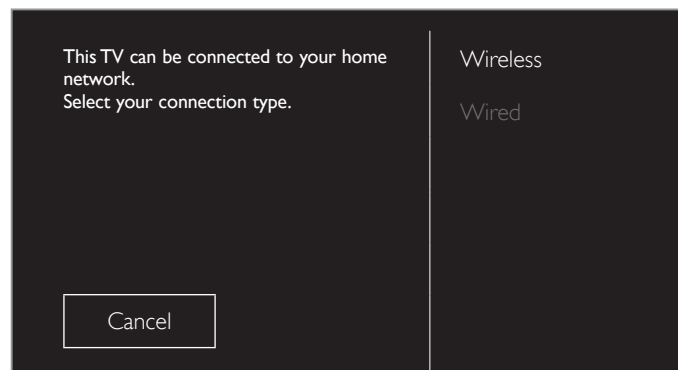
Language	Network settings assistant	Start now
Channels	Manual network settings	Network selection
Preferences	Connection test	Start now
Network	Setting status	Information
Reset AV settings	Reset network settings	Start now

3 Press **OK** to select **Start now**.

Wireless setting

Select to use a wireless LAN to connect to the Internet by wireless connection.

4 Use ▲▼ to select **Wireless**, then press **OK**.



5 Use ▲▼ to select the desired setting, then press **OK**.

Simple connect	Select this setting if your router has a WPS button. Start scanning for wireless networks on the TV after pressing the WPS button on your router. If connection test fails, try Simple connect again.*1 If it fails then refer to the router's manual for more details.
Scan	Search for wireless networks automatically and select the SSID from the list. Wireless network setting ►► p.32
Manual entry	Set up the connection to the AP (e.g. wireless router) manually by entering the SSID.

*1 WPS (Simple connect) cannot be used when the security protocol is set to WEP. Change the Access Point's security mode from WEP to WPA or WPA2 (recommended).

Wired setting

Select to use an Ethernet cable to connect to the Internet by wired connection. Please purchase shielded Ethernet cables at your local store and use them when you connect to network equipment.

4 Use ▲▼ to select **Wired**, then press **OK**.
 • **Connection test** will start automatically. ►► p.33

Manual network settings

2 Use ▲▼ to select **Manual network settings**, then press **OK**.

Network settings assistant	Network selection	Wireless
Manual network settings	Wireless network setting	Auto
Connection test	IP configuration	IP setting mode
Setting status	Proxy configuration	Proxy setting
Reset network settings		

Network selection

3 Use ▲▼ to select **Network selection**, then press **OK**.

4 Use ▲▼ to select the desired setting, then press **OK**.

Wired	If you connect to an Ethernet cable, select Wired to connect to the Internet.
Wireless	If you have a router with WPS function, select Wireless to connect to the Internet.

Continued on next page.

Wireless network setting

This menu is displayed only when you set **Wireless** in **Network selection**. In order to use a wireless network, you must set up a connection to the AP (e.g. wireless router).

3 Use ▲▼ to select **Wireless network setting**, then press **OK**.

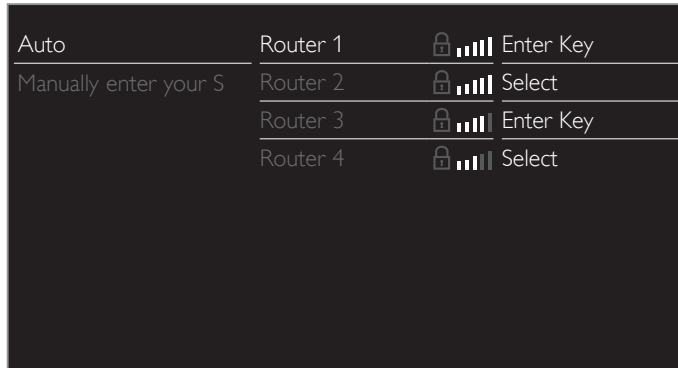
Auto

Search for wireless networks automatically and select the SSID from the list.

4 Use ▲▼ to select **Auto**, then press **OK**.

5 The list of wireless networks will be displayed.

Use ▲▼ to select the appropriate the SSID, then press **OK**.



- If you select the SSID with a lock icon, WEP^{*2}/WPA/WPA2 Key entry screen will appear:
Enter the WEP^{*2}/WPA/WPA2 key of the selected wireless network using ▲▼◀▶, then press **OK**.
- If you select the SSID has a WPS, the WPS setting screen will appear:
Use ▲▼◀▶ to select a setting, then press **OK**.

Simple connect	Select this setting if your router has a WPS button. Start scanning for wireless networks on the TV after pressing the WPS button on your router. If connection test fails, try Simple connect again. ^{*1} If it fails then refer to the router's manual for more details.
WPS code	Select this setting if your router has a WPS but does not have a WPS button. Enter the 8-digit WPS PIN code shown on your TV in the router settings menu via PC before Connect is selected.
Manual	If your wireless network with authentication setting (WEP ^{*2} , WPA-PSK or WPA2-PSK), WEP ^{*2} /WPA/WPA2 Key entry screen will appear. Enter the WEP ^{*2} /WPA/WPA2 key of the selected wireless network using ▲▼◀▶, then press OK .

^{*1} WPS (Simple connect) cannot be used when the security protocol is set to WEP. Change the Access Point's security mode from WEP to WPA or WPA2 (recommended).

^{*2} WEP is not recommended to be used due to its Major security flaws. Change the Security protocol on the wireless router to WPA or WPA2 (recommended) mode.

Confirmation message will appear. Select **OK** to complete the settings.

Note

- For a wireless network with authentication setting, key icon appears to the right hand of the SSID.
- Signal icon shows the strength of the signal.
- WEP^{*2}/WPA key appears as asterisks on the confirmation screen.
- The wireless LAN supports following specifications.
 - Wireless standards : IEEE 802.11 b/g/n
 - Frequency spectrum : 2.4GHz
 - Security protocol : WEP^{*2}/WPA/WPA2

Manually enter your SSID

Set up the connection to the AP (e.g. wireless router) manually by entering the SSID.

4 Use ▲▼ to select **Manually enter your SSID**, then press **OK**.

- AP (e.g. wireless router) SSID entry screen will appear.
Enter the SSID using ▲▼◀▶, then press **OK**.

5 Use ▲▼ to select the authentication setting of the selected wireless network.

- For a wireless network with authentication setting, select the authentication setting, according to the security type of the wireless network.



None	Set the authentication setting to None .
WEP ^{*2}	Set the authentication setting to WEP . ^{*2}
WPA-PSK	Set the authentication setting to WPA-PSK .
WPA2-PSK	Set the authentication setting to WPA2-PSK .

- For a wireless network without authentication setting, select **None**.
- If you select WEP^{*2}, WPA-PSK or WPA2-PSK, WEP^{*2}/WPA/WPA2 Key entry screen will appear:
Enter the WEP^{*2}/WPA/WPA2 key of the selected wireless network using ▲▼◀▶, then press **OK**.
- Confirmation message will appear. Select **Yes** to complete the settings.

^{*2} WEP is not recommended to be used due to its Major security flaws. Change the Security protocol on the wireless router to WPA or WPA2 (recommended) mode.

Continued on next page.

IP configuration

In following cases, select **IP configuration** to set each setting as necessary.

- When connection test failed with the setting of **Connection test**.
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.

3 Use ▲▼ to select **IP configuration**, then press **OK**.

4 Use ▲▼ to select a setting, then press **OK**.

Network selection	IP setting mode	Manual
Wireless network setting	IP address	192.168.11.3
IP configuration	Subnet mask	255.255.255.0
Proxy configuration	Default gateway	192.168.11.1
	Primary DNS	192.168.11.1
	Secondary DNS	0.0.0.0
	MAC address	00:12:0E:10:09:15

IP setting mode	Auto	Sets the IP setting automatically.
	Manual	Sets the IP setting manually.
IP address *1,3		A set of numbers which are assigned to devices participating in a computer network.
Subnet mask *1,3		A mask which is used to determine what subnet an IP address belongs to.
Default gateway *1,3		IP address of the network device (such as router) which provides Internet access.
DNS setting mode	Auto	Sets the DNS setting automatically.
	Manual	Sets the DNS setting manually.
Primary DNS *2,3		A server which handles the name and IP address over the Internet.
Secondary DNS *2,3		A server which handles the name and IP address over the Internet.
MAC address		An address which recognizes the devices connecting to the network. It is also called Hardware Address.

*1 Items can be selected only when **IP setting mode** is set to **Manual**.

*2 Items can be selected only when **DNS setting mode** is set to **Manual**.

*3 Use ▲▼ or the **NUMBER buttons** to input numbers. When you use ▲▼ to input numbers, then press **OK** or input the triple digits by using the **NUMBER buttons**, the cursor moves to the next entry field. When you use ▲▼ to input numbers, then press **OK** or input the triple digits by using the **NUMBER buttons** at the rightmost entry field, numbers will be stored and go back to the previous menu.

Note

- The range of input numbers is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered number will be saved even if you change the setting to **Auto**.
- If you want to enter 1 or 2 digit number in one cell, press **OK** to move on to the next cell.
- If the entered IP address or the default gateway or primary DNS number is same as the default setting, IP address setting will be set to **Auto**. (The manually entered number will be saved).
- When IP address setting is set to **Manual**, the setting of DNS setting will automatically be **Manual** and when IP address setting is set to **Auto**, you can set either **Auto** or **Manual** for DNS setting.

Proxy configuration

3 Use ▲▼ to select **Proxy configuration**, then press **OK**.

4 Use ▲▼ to select a setting, then press **OK**.

Network selection	Proxy setting	Do not use
Wireless network setting		
IP configuration		
Proxy configuration		

- **Do not use** is selected for default settings.
- If you need to change the proxy setting as instructed by your Internet service provider to set the designated proxy address and port, select **Use**.

Proxy setting	Do not use	Not use the proxy server.
	Use	Uses the proxy server.
Proxy address *		Selects the number or word by using ▲▼◀▶, then press OK .
Proxy port *		Use ▲▼ or the NUMBER buttons to input numbers.

*Items can be selected only when **Proxy setting** is set to **Use**.

Note

- The range of input numbers for the port number is between 0 and 65535. (If you enter a number larger than 65535, it will be regarded as 65535.)
- For proxy port, the selected ports may be blocked and not be able to use depending on your network environment.
- If the proxy address is entered with blank only, proxy server setting will be set to **Do not use**.

Connection test

Perform the following steps to test your Internet connection after you have connected an Ethernet cable or entered network settings such as IP address, DNS settings, etc. manually.

2 Use ▲▼ to select **Connection test**, then press **OK**.

3 Press **OK** to select **Start now**.

- Connection test will start automatically and the test result will appear right after the connection test finishes.

Testing...	The test is in progress.
Pass	Connection test is successfully completed.
Fail	Connection test failed. Check the connection settings.

4 Press **OK** to go to the list of network status confirmation screen.

Note

- If the connection test passes, you are ready to use Smart TV or network upgrade function using the Internet without making any additional settings.
- If the connection test fails, check if the Ethernet cable is connected to this TV properly or if you have entered all the required details for the wireless LAN connection properly.

Continued on next page.

Setting status

You can check the status of network settings.

- 2 Use ▲▼ to select **Setting status**, then press **OK**.
 - Network setting list will be displayed.
 - MAC address of this unit will be displayed in the list.

Reset network settings

You can reset the status of network settings.

- 2 Use ▲▼ to select **Reset network settings**, then press **OK**.
- 3 Press **OK** to select **Start now**.

Return your settings to default values

When you return picture and sound settings to their default values the channel installation settings are not affected.

- 1 Use ▲▼ to select **Reset AV settings**, then press **OK**.
- 2 Press **OK** to select **Start now**.

Software

Magnavox continuously tries to improve its products and we strongly recommend that you upgrade the TV software when upgrades are available.

New software can be downloaded from our website at www.magnavox.com/support/download_list.php using the model number (may also need the first 3 digits of the Serial Number) of your TV to find information.

- 1 Press **Home** and use ▲▼◀▶ to select **Setup**, then press **OK**.
- 2 Use ▲▼ to select **Software**, then press **OK**.

Picture	Software information	Select
Sound	Software update	USB
Features	Automatically check for	Off
Installation	Netflix deactivation	
Software	Netflix ESN	
	VUDU deactivation	
	YouTube deactivation	

Checking your current software version

- 1 Use ▲▼ to select **Software information**, then press **OK**.
 - The version and a description of the current software is displayed.

Picture	Software information	FNI-XXXXX_XXX_X
Sound	Software update	
Features	Automatically check for	
Installation	Netflix deactivation	
Software	Netflix ESN	
	VUDU deactivation	
	YouTube deactivation	

Preparing for the software upgrade

You require the following equipment:

- A PC with web browsing capability
- An archive utility that supports the ZIP-format (e.g. WinZip for Windows or Stuffit for Mac OS)
- An empty clean formatted USB Memory Stick

Note

- Only FAT/DOS-formatted portable memory is supported.
- Use only software upgrades that can be found on the Magnavox web site.

Warning

- When the software upgrade is running, don't press any buttons.
- Do not remove the USB Memory Stick during the software upgrade.
- If an error occurs during the upgrade, retry the procedure or for further assistance, please contact Call Center.

Downloading the software

Find information and software related to your TV and download the latest software upgrade file to your PC.

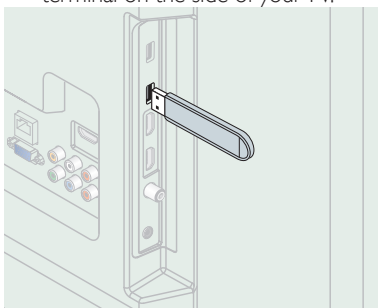
- 1 On your PC, open a web browser and go to www.magnavox.com/support/download_list.php
- 2 Enter the model number in the "Type the Model Number..." field.
- 3 Click the desired software to be downloaded.
 - Decompress the ZIP-file.
- 4 Copy the upgrade file to the root directory of the USB Memory Stick.

Upgrading the software

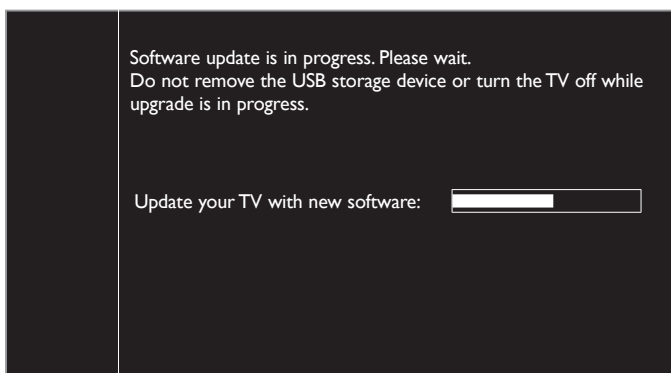
USB upgrade

You can upgrade the software by using USB Memory Stick.

- 1 Connect your USB Memory Stick with the upgrade file to the USB terminal on the side of your TV.



- 2 Use ▲▼ to select **Software update**, then press **OK**.
- 3 Use ▲▼ to select **USB**, then press **OK**.
- 4 Use ▲▼ to select the desired Update file.
- 5 Use ◀▶ to select **Yes**, then press **OK**.
- 6 Read the on-screen instructions and confirm that you want to continue with the installation.



- 7 When the software upgrade is completed, press **⏻** to set the unit to go into Standby mode, then remove the USB Memory Stick.
- 8 Unplug the AC power cord for a few seconds from AC outlet and plug it again.
- 9 Press **⏻** again to Turn the unit On.
 - The TV starts up with the new software.
 - For further assistance, please contact Call Center.

Network update

You can update the software by connecting the unit to the Internet.

- 1 Use ▲▼ to select **Software update**, then press **OK**.
- 2 Use ▲▼ to select **Network**, then press **OK**.
- 3 Use ◀▶ to select **Yes**, then press **OK**.
 - This unit will then start checking for the latest firmware version.
- 4 Confirmation message will appear:
Use ◀▶ to select **Yes**, then press **OK**.
 - The unit will start downloading the latest firmware version.
 - The unit will start updating the firmware version.
 - It may take a while to complete the updating.
- 5 When the software update is complete, press **⏻** to make sure the unit goes to Standby mode.
- 6 Unplug the AC power cord for a few seconds from AC outlet and plug it again.

- 7 Press **⏻** again to Turn the unit On.
 - The TV starts up with the new software.
 - For further assistance, please contact Call Center.

Note

- In order to update software via the Internet, you must connect the unit to the Internet and set up necessary settings. **Network settings assistant** ►► p.31 **Network** ►► p.31
- Please do not unplug the AC power cord or Ethernet cable while executing the **Network update**.
- All settings will remain the same even if you update the software version.
- The version of Net service will also be updated if newer version of Net service is available when updating the firmware.

Automatically check for latest software

This function lets you know if the latest software is available while the unit is connected to the Internet.

- 1 Use ▲▼ to select **Automatically check for latest software**, then press **OK**.
- 2 Use ▲▼ to select the desired option, then press **OK**.

Off	Disable automatically check for latest software.
On	A message will appear if there is the latest software on the network server.

Netflix deactivation

Displays the deactivation setting for Netflix.

- 1 Use ▲▼ to select **Netflix deactivation**, then press **OK**.
- 2 Use ▲▼ to select the desired option, then press **OK**.

Yes	Deactivate the connection to Netflix.
No	Activate the connection to Netflix.

Netflix ESN

Displays the ESN information.

- 1 Use ▲▼ to select **Netflix ESN**, then press **OK**.
 - Displays the ESN (Electronic Serial Number) to get any services from Netflix.

VUDU deactivation

Displays the deactivation setting for VUDU.

- 1 Use ▲▼ to select **VUDU deactivation**, then press **OK**.
- 2 Use ▲▼ to select the desired option, then press **OK**.

Yes	Deactivate the connection to VUDU.
No	Activate the connection to VUDU.

YouTube deactivation

Displays the deactivation setting for YouTube.

- 1 Use ▲▼ to select **YouTube deactivation**, then press **OK**.
- 2 Use ▲▼ to select the desired option, then press **OK**.

Yes	Deactivate the connection to YouTube.
No	Activate the connection to YouTube.

6 Connecting devices

No supplied cables are used with these connections:

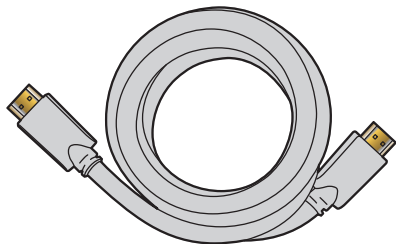
- Please purchase the necessary cables at your local store.

Before you connect AC power cord:

Be sure other devices are connected properly before plugging in the AC power cord.

Selecting your connection quality

HDMI - Highest quality

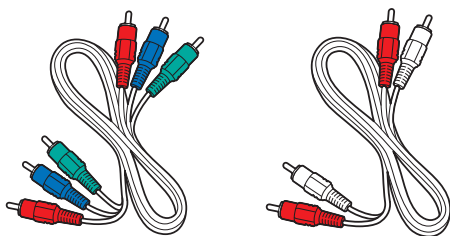


Supports high-definition Digital signals and gives highest picture and sound quality. Video and Audio signals are combined in one cable. You must use HDMI for full high-definition video and to enable fun-Link (HDMI CEC).

Note

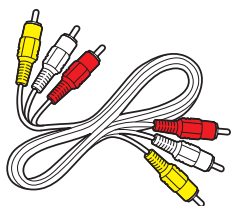
- Magnavox HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of Digital Rights Management that protects high definition content in Blu-ray discs or DVDs.
- The HDMI-ARC connector on the TV features HDMI-ARC functionality. This allows output of TV Audio to an HDMI-ARC-compliant device.

Component (Y Pb Pr) - High quality



Supports high-definition Analog signals but gives lower picture quality than HDMI. Component (Y/Pb/Pr) Video cables combine Red/Green/Blue video cables with Red/White Audio (L/R) cables. Match the cable colors when you connect to the TV.

Composite - Basic quality

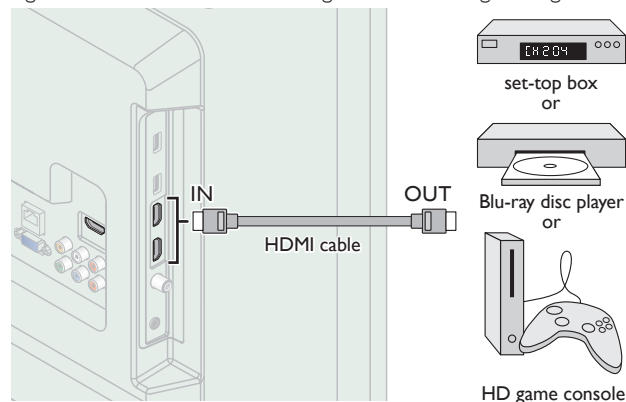


For Analog connections, Composite Video/Audio Analog cable usually combine a Yellow video cable with Red/White Audio (L/R) cables. With this unit, Yellow cable must be connected to Y (Green) of Component Video Input jacks.

Connecting your devices

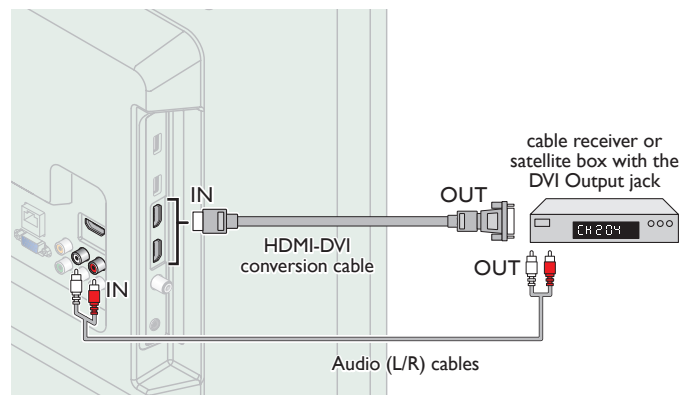
HDMI Digital connection

HDMI connection offers the highest picture quality. HDMI (High-Definition Multimedia Interface) transports high definition Digital video and multi-channel Digital Audio through a single cable.



HDMI-DVI connection

This unit can be connected to your device that has a DVI terminal. Use an HDMI-DVI conversion cable for this connection and it requires Audio cable for Analog Audio signal as well.



Note

- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High Speed HDMI cable is recommended for the better compatibility.

For HDMI connection

- The unit accepts 480i / 480p / 720p / 1080i, 1080p 24/30/60Hz of video signals, 32kHz / 44.1kHz and 48kHz of Audio signals.
- This unit accepts 2 channel Audio signal (LPCM) only.
- This unit accepts only signals in compliance with EIA861.

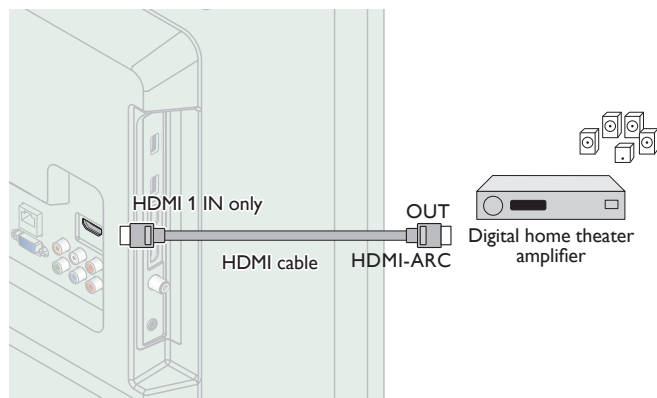
For HDMI-DVI connection

- The unit accepts 480i, 480p, 720p, 1080i and 1080p video signals.
- HDMI-DVI connection requires separate Audio connections as well and the Audio signals are output as Analog (L/R) Audio.
- DVI does not display 480i image which is not in compliance with EIA/CEA-861/861B.

Continued on next page.

HDMI-ARC connection

HDMI-ARC allows you to use fun-Link to output TV Audio directly to a connected Audio device, without the need for an additional Digital Audio cable.



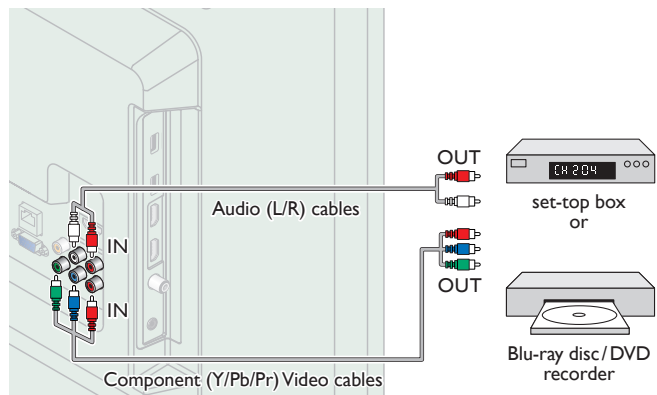
Note

- The HDMI 1 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output Digital Audio to an HDMI home theater system.
- Be sure that the device is HDMI CEC and ARC compliant and that the TV is connected to the device using an HDMI cable attached to HDMI-ARC connectors.

Component Analog Video Connection

Component Analog Video connection offers better picture quality for video devices connected to the unit.

If you connect to the unit's Component Video (Y/Pb/Pr) Input jacks, connect Analog Audio cables to the Analog Audio (L/R) Input jacks.



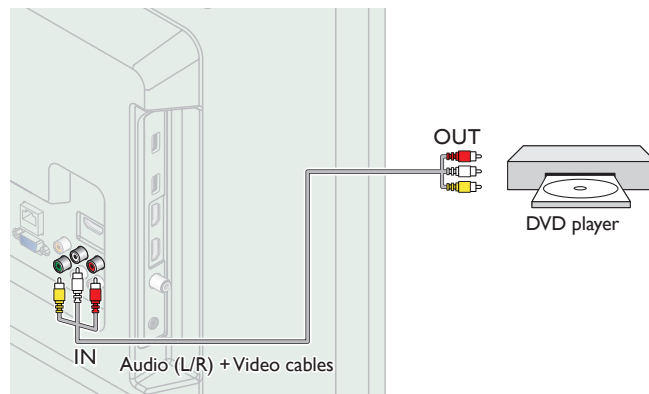
Note

- The unit accepts 480i/480p/720p and 1080i/p of video signals for this connection.

Composite Analog Video Connection

Composite Analog Video connection offers standard picture quality for video devices connected to the unit.

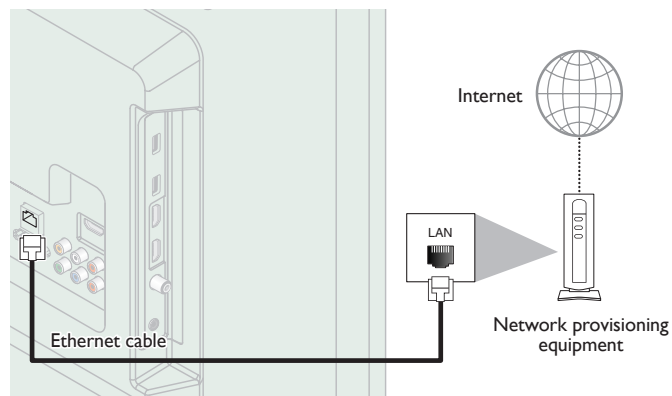
If you connect to the unit's Composite Video (Y/VIDEO) Input jack, connect Audio cables to the Audio (L/R) Input jacks. When the Audio is monaural, then only connect to the Audio L Input jack.



Note

- With this unit, Yellow cable must be connected to Y (Green) of Component Video Input jacks.
- Whenever you connect to the Composite Video Input jack (Y/VIDEO), you must disconnect the Component Video Input jacks (Pb and Pr). If you leave those jacks connected, it may cause of unstable picture.
- Only the left loudspeaker reproduces sound for mono equipment. Use a mono to stereo adapter (not supplied) for sound reproduction via all internal loudspeakers.

Connecting the TV to the Internet using an Ethernet cable

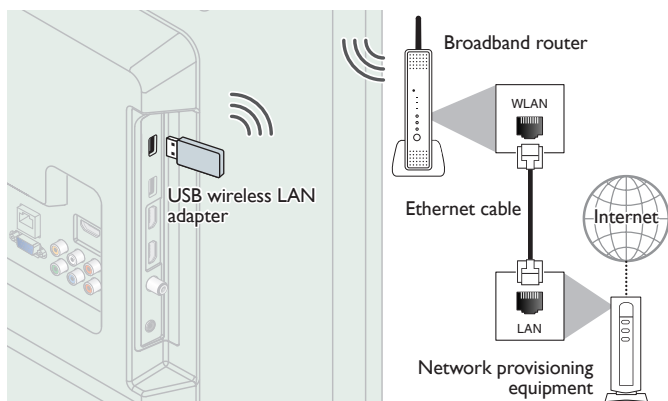


Note

- Please purchase shielded Ethernet cables at your local store and use them when you connect to network equipment.
- After connecting an Ethernet cable, set up necessary network settings. **Network** ► p.31
- Do not insert any cable other than an Ethernet cable to the Ethernet port to avoid damaging the unit.
- If your telecommunications equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your telecommunications equipment (modem, etc.) has broadband router functions but there is no vacant port, use a hub.
- For a broadband router, use a router which supports 10BASE-T/100BASE-TX.
- Do not connect your PC directly to the Ethernet port of this unit.

Continued on next page.

Connecting the TV to the Internet using a wireless LAN

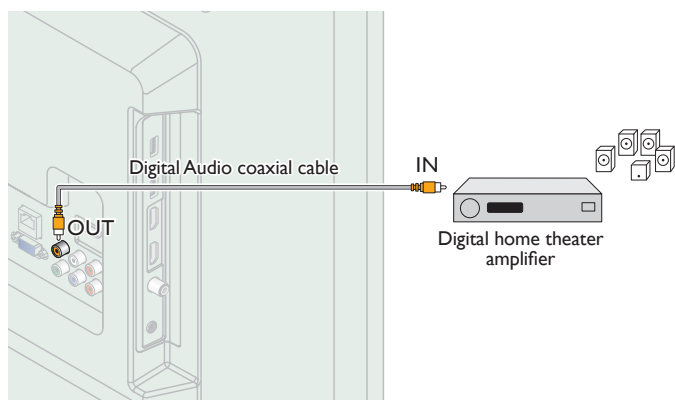


Note

- After you made the wireless connection, set up necessary network settings.
Network **p.31**
- Use a Wireless LAN Access Point (AP) (e.g. wireless router) which supports IEEE 802.11 b/g/n. (n is recommended for stable operation of the wireless network.)
- This unit does not support Ad-hoc mode.
- Other radio devices or obstacles may cause interference to the wireless network connection.

Digital Audio Output Connection

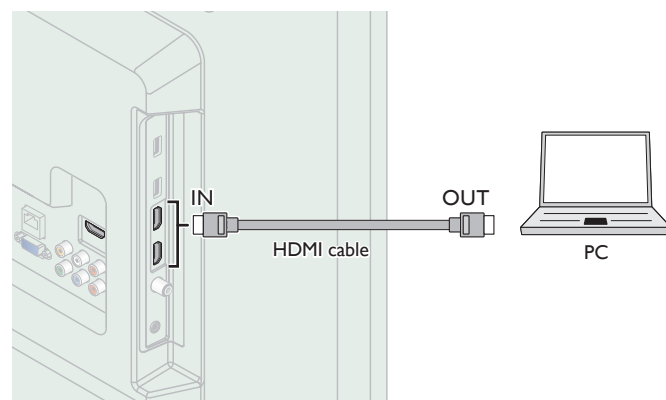
If you connect this unit to an external Digital Audio device, you can enjoy multi-channel Audio like 5.1ch Digital broadcasting sound. Use a Digital Audio coaxial cable to connect the unit to external Digital Audio devices.



PC connection

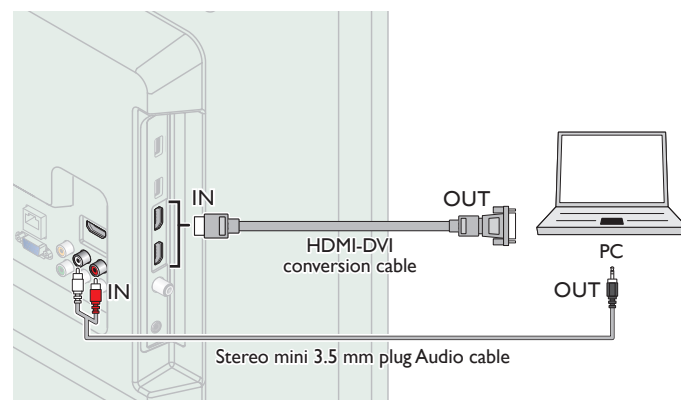
HDMI connection

This unit can be connected to your PC that has a HDMI terminal. Use an HDMI cable for this Digital connection.



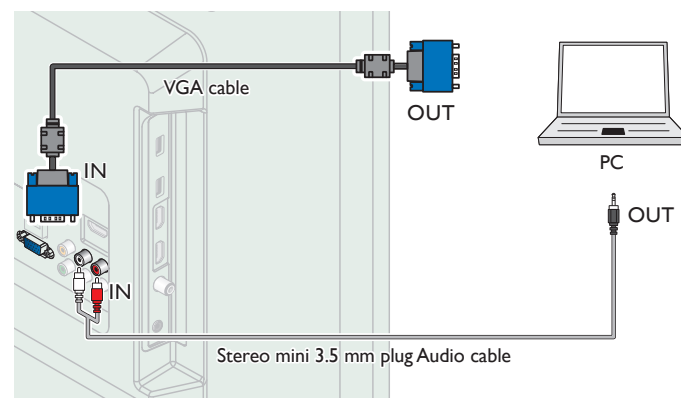
HDMI-DVI connection

This unit can be connected to your PC that has a DVI terminal. Use an HDMI-DVI conversion cable for this Video Digital connection and it requires Stereo mini 3.5mm plug Audio cable for Analog Audio signal as well.



VGA connection

This unit is equipped with a PC Input jack. If you connect this unit to your PC, you can use this unit as a PC monitor. Use a VGA cable for this Video connection and it requires a Stereo mini 3.5mm plug Audio cable for Analog Audio signal as well.



Continued on next page.

The following video signals can be displayed:

Format	Resolution	Refresh rate
VGA	640 × 480	60Hz
SVGA	800 × 600	
XGA	1,024 × 768	
WXGA	1,280 × 768	
	1,360 × 768	

Other formats or non-standard signals will not be displayed correctly.

Note

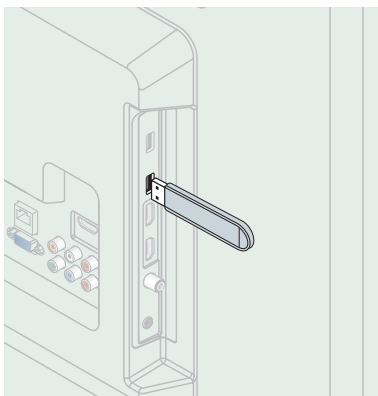
- Please purchase the VGA cable or HDMI-DVI conversion cable that has a ferrite core.
- The following operations may reduce noise.
 - Attach a ferrite core to the AC power cord of your PC.
 - Unplug the AC power cord and use the built-in battery of your PC.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High Speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i, 480p, 720p, 1080i and 1080p video signals.
- HDMI-DVI connection requires separate Audio connections as well and the Audio signals are output as Analog (L/R) Audio.
- DVI does not display 480i image which is not in compliance with EIA/CEA-861/861B.

USB Memory Stick

This unit offers easy playback of picture (JPEG), music (MP3) and video files.

Insert the USB Memory Stick into the USB terminal shown below.

USB  p.18



Note

- The unit recognizes only a USB Memory Stick.
- Do not use a USB hub or an extension cable to connect an external hard disk drive to the unit. (Not supported.)
- A USB Memory Stick is always inserted to this unit directly.
- A USB Memory Stick is not supplied with this unit.
- We do not guarantee that all USB Memory Sticks can be supported by this unit.
- Be sure to keep a backup copy of the original files on your device before you play them back on this unit. We have no responsibilities for damage or loss of your stored data.
- To protect your USB Memory Stick files from being erased place the write protect sliding tab in the protect position.
- When you are ready to remove a USB Memory Stick, set the unit to go into Standby mode to avoid any damage to your data and the unit.
- A USB Memory Stick that requires its own driver or the device with a special system such as fingerprint recognition are not supported.
- This unit is not allowed to use the USB Memory Stick which requires an external power supply (500mA or more).

7 Useful tips

FAQ

Question	Answer
My remote control does not work. What should I do?	<ul style="list-style-type: none"> • Check the antenna or cable connection to the main unit. • Check the batteries of the remote control. • Check if there is an obstacle between the infrared sensor window and the remote control. • Test the signal Output use IR Signal Check. ■■■ p.43 If okay, then possible infrared sensor trouble. • Aim the remote control directly at the infrared sensor window on the front of the unit. • Reduce the distance to the unit. • Re-insert the batteries with their polarities (+/-) as indicated. • When there is an infrared-equipped device such as PC near this unit, it may interrupt the remote control signal of this unit. Move the infrared-equipped device away from this unit, change the angle of the infrared sensor or Turn Off the infrared communication function.
How come the initial setup appears every time I Turn On this unit?	<ul style="list-style-type: none"> • Make sure to complete the initial setup before the unit goes into Standby mode.
Why can I not watch some RF signal TV programs.	<ul style="list-style-type: none"> • Autoprogram must be completed when you set up the unit for the first time or move it to a location where previously unavailable channels are broadcast. • Make sure Autoprogram has been completed. ■■■ p.28 • The selected channel may not be broadcasting. • When Autoprogram is interrupted and not completed, some channels will not be received. Make sure to complete the Autoprogram. ■■■ p.28 • The selected channel cannot be viewed by the Child and ratings lock setting. ■■■ p.25 • The unit requires some kind of antenna Input. An indoor antenna (Digital or VHF/UHF), an external antenna (Digital or VHF/UHF) or an RF coaxial cable from your wall cable/satellite box needs to be plugged into the unit.
How come there is no image from the connected external devices?	<ul style="list-style-type: none"> • Check if the correct Input mode is selected by pressing SOURCE. Watching channels from an external device ■■■ p.15 • Check the antenna, cable or other Input connection to the unit. • When using the Component Video Connection check that the Green (Y), Blue (Pb/Cb) and Red (Pr/Cr) connectors are connected to their corresponding colored jacks on the unit.
When I enter a channel number, it changes automatically.	<ul style="list-style-type: none"> • Many Digital channels have alternate channel numbers. The unit changes the numbers automatically to the ones signifying the broadcasting station channel number. These basic numbers used for previous Analog broadcasts. (e.g., Input ch# 30 automatically changes to ch# 6.1)
Why are captions not displayed entirely? Or, captions are delayed behind the dialog.	<ul style="list-style-type: none"> • Captions that are delayed a few seconds behind the actual dialog are common for live broadcasts. Most captioning production companies can display a dialog to maximum of 220 words per minute. If a dialog exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialog.
How can I set the clock ?	<ul style="list-style-type: none"> • There is no clock function on this unit.
I cannot change the Child lock setting because my PIN code no longer works.	<ul style="list-style-type: none"> • Although the default PIN code (0000) is supplied with the unit, the PIN code will be required once you set a PIN code in Child and ratings lock. ■■■ p.25 When you forget your PIN code, enter 0711 in Change PIN to reset the PIN code. ■■■ p.27

Troubleshooting

If the unit does not perform properly when operated as instructed in this Owner's Manual, check the following chart and all connections once before calling for service.

Symptom	Remedy
No power	<ul style="list-style-type: none"> • Make sure the AC power cord is plugged in. • Make sure that the AC outlet supplies the proper voltage, plug another electrical appliance into the AC outlet to ensure that the AC outlet operates normally. • If a power failure occurs, unplug the AC power cord for 1 minute to allow the unit to reset itself.
Control buttons do not work.	<ul style="list-style-type: none"> • Press only one button at a time. Do NOT press more than one button at the same time. • Ensure that no buttons on the remote control are depressed and move freely.
Power is ON but no screen image.	<ul style="list-style-type: none"> • Check whether the connection of the antenna, cable receiver or satellite box is connected correctly. • Check whether all the cables to the unit are connected to the correct Output jack of your device like Blu-ray/DVD recorder. • Make sure that the selected Input mode is connected to the working Input jack. • Check if your computer is NOT in sleep mode when the Input mode of this unit is in PC mode. Tap any key on the keyboard to wake up your computer.

Continued on next page.

Symptom	Remedy
No picture or sound	<ul style="list-style-type: none"> • Check if the Power is On. • Check whether all the cables to the unit are connected to the correct Output jack of your device like Blu-ray/DVD recorder. • View other TV channels. The problem might be limited to the broadcasting station or weak signal strength. • Unplug the AC power cord and wait for about 1 minute, then plug the AC power cord and Turn On the unit again. • Check whether the connection of the antenna, cable receiver or satellite box is connected correctly. • Make sure that the selected Input mode is connected to the working Input jack. • Check if your computer is NOT in sleep mode when the Input mode of this unit is in PC mode. Tap any key on the keyboard to wake up your computer. • Make sure that the sound is not muted. Press so that the volume bar and current volume level will appear on the TV screen. • Make sure that the volume is NOT set to 0 or . If so, use VOL +/- to adjust to the desired volume. • Make sure that the headphone is NOT connected to the Headphone Audio Output jack. • Make sure that the TV speakers is NOT set to Off.
No color	<ul style="list-style-type: none"> • View other TV channels. The problem might be limited to the broadcasting station or weak signal strength. • Adjust Color in Picture settings. ►► p.21
No sound, distorted sound or incorrect Audio Sound is heard when using the HDMI-DVI connections.	<ul style="list-style-type: none"> • Make sure that the Analog Audio signals from the HDMI-DVI device are connected to the Analog Audio (L/R) Input jacks. • When using Component Analog Video, Composite Analog Video or PC VGA Video make sure that the Analog Audio (L/R) connectors are mounted into the Audio (L/R) Input jacks.
Adjusted Picture or Sound settings are not effective every time the unit is Turned On.	<ul style="list-style-type: none"> • You must set Home in Location. ►► p.29 Otherwise, the settings you adjusted will not be memorized after the unit goes into Standby mode.
Sound OK, picture poor	<ul style="list-style-type: none"> • Electrical interference from nearby appliances may affect picture quality when viewing an off-the-air low power NTSC analog broadcast signal. • Adjust Contrast and Brightness in Picture settings. ►► p.21 • View other TV channels. The problem might be limited to the broadcasting station or weak signal strength. • For the best picture quality, watch High Definition wide screen programs. If the HD content is not available, watch Standard Definition programs instead.
Picture OK, sound poor	<ul style="list-style-type: none"> • View other TV channels. The problem might be limited to the broadcasting station or weak signal strength. • Check if the Audio cable is connected into the unit correctly.
You see a distorted picture or hear an unusual sound.	<ul style="list-style-type: none"> • You may be getting interference from electrical appliances, automobiles, motorcycles or fluorescent lights when viewing an off-the-air low power NTSC analog broadcast signal. • Try moving the unit to another location to see if this is the cause of the problem.
Ghosts, lines or streaks in picture	<ul style="list-style-type: none"> • Electrical interference from nearby appliances may affect picture quality when viewing an off-the-air low power NTSC analog broadcast signal. • View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.
You see noise or trash on the screen.	<ul style="list-style-type: none"> • When the capabilities of the unit exceed the capabilities of the Digital broadcasting, the signal will be increased to match the capabilities of the display of the unit. This may cause noise or trash. When viewing an off-the-air low power NTSC Analog broadcast signal may show noise or trash on the screen.
Different color marks on the TV screen	<ul style="list-style-type: none"> • View other TV channels. The problem might be limited to the broadcasting station, missing data or pixelation.
You switch to a different Input and the volume changes.	<ul style="list-style-type: none"> • This unit will memorize the volume level from the last time you adjusted it. • If the volume of the sound from another device is higher or lower; then the loudness will change. • Make sure AVL is set to On. ►► p.23
You switch to a different Input and the screen size changes.	<ul style="list-style-type: none"> • This unit will memorize the viewing mode from the last time you used the particular Input modes.
The display image does not cover the entire screen.	<ul style="list-style-type: none"> • If you are using the unit as a PC monitor, make sure that Horizontal shift and Vertical shift in Picture are set correctly. ►► p.21 • If you are watching TV or using the Composite Video, Component Video or HDMI with 480i Input, press FORMAT repeatedly to switch various screen modes.
Captions are displayed as a white box. No caption is displayed in the Closed Caption-supported program.	<ul style="list-style-type: none"> • Interference from buildings or weather conditions may cause captioning to be incomplete if watching Analog TV (NTSC) signals. • Broadcasting station may shorten the program to insert advertisements. • The Closed Caption decoder cannot read the information of the shortened program.
Black box is displayed on the TV screen.	<ul style="list-style-type: none"> • The text mode is Selected. For caption, select CC-1, CC-2, CC-3 or CC-4.
Cannot connect to the network.	<ul style="list-style-type: none"> • Check if the Ethernet cable connection is properly made. Turn On the modem or broadband router. • Check the network settings. • Check if the broadband router and/or modem is correctly connected.
Sometimes video quality is poor when using the wireless LAN.	<ul style="list-style-type: none"> • The wireless network connection quality varies depending on the distance or obstacles (e.g. wall, basement, 2nd floor) between the TV Wireless LAN Adapter and the wireless router (access point), from other wireless networks, and brand and type of the wireless router (access point). When using the Wireless LAN of the TV, it is suggested to place the wireless router as close as possible to the Television.
Wireless LAN connection fails or wireless connection is poor	<ul style="list-style-type: none"> • Check the installation location of the TV and wireless router (access point). Signal quality may be affected for the following reasons. <ul style="list-style-type: none"> – Interference of other wireless devices, microwaves, fluorescent lights, etc., are placed nearby. – There are floors or walls between the wireless router and TV. – If the problems continue even after checking the above, try making a wired LAN connection.

Continued on next page.

Symptom	Remedy
Cannot use the wireless connection.	<ul style="list-style-type: none"> Check if the Wireless LAN Access Point (AP) (e.g. wireless router) is oriented properly or not placed too close between them. Once you have activated the wireless connection please wait 30 seconds for the connection to be established after Turning On the unit, before trying to access network features such as Smart TV.
Cannot use Netflix feature.	<ul style="list-style-type: none"> Netflix is available only in the United States and Canada. Check if the network connection is properly made. Visit http://www.netflix.com/HowItWorks on your PC and become a Netflix member.
Cannot add movies or TV episodes to the Instant Queue.	<ul style="list-style-type: none"> Visit www.netflix.com on your PC.
Even though the speed of the Internet connection improves during playback, the picture quality of Netflix streaming movie does not improve.	<ul style="list-style-type: none"> The picture quality does not change during playback. It differs depending on the speed of Internet connection at the time of loading.
Cannot use VUDU feature.	<ul style="list-style-type: none"> VUDU is available only in the United States, Canada and Mexico. Check if the network connection is properly made.
Cannot rent or buy movies / TV episodes on VUDU.	<ul style="list-style-type: none"> You need to activate the VUDU account. For detailed information, please visit the service providers website at http://www.vudu.com/product_overview.html Log into your account at http://my.vudu.com and check your payment information.
The picture quality of streaming movie (Netflix or VUDU) is poor.	<ul style="list-style-type: none"> Check the speed of your Internet connection. You need speeds of at least 8 Mbps to this player for high quality uninterrupted playback.
Streaming movie (Netflix or VUDU) often stops or starts buffering during playback.	<ul style="list-style-type: none"> Contact your Internet service provider to troubleshoot your Internet connection for speed and line quality. Consistent line quality and speed are very important for Internet video playback.
Cannot connect to the network while my PC is connected to the network.	<ul style="list-style-type: none"> Check the content of your Internet service contract to see if your Internet Service Provider prevents multiple terminals connecting at the same time.
Cannot use Simple connect (WPS) to connect to the Access Point.	<ul style="list-style-type: none"> Connect the unit to the Access Point using Scan or Manual entry mode. If the Access Point's security mode is set to WEP*, change the setting to WPA or WPA2 (recommended), then try Simple connect (WPS) again. (For Access Point configuration, please consult its user manual or manufacturer.) * WEP is not recommended to be used due to its Major security flaws. Change the Security protocol on the wireless router to WPA or WPA2 (recommended) mode.

≡ Note

- The LCD screen is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a fixed point of blue, green or red. This is not to be considered a defect in the LCD screen.
- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for more details on correct operations.

8 Information

Glossary

Analog TV (NTSC)

Acronym that stands for National Television Systems Committee and the name of Analog broadcasting standards. Off-the-air NTSC signals are no longer being sent by major broadcasting stations in the USA.

ARC (Audio Return Channel)

HDMI-ARC allows you to use Magnavox fun-Link to output TV audio directly to a connected Audio device, without the need for an additional Digital Audio cable. Be sure that the device is HDMI CEC and ARC compliant, and that the TV is connected to the device using an HDMI cable attached to both HDMI-ARC connectors.

Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

CEC (Consumer Electronics Control)

This allows you to operate the linked functions between our brand devices with CEC feature and this unit. We do not guarantee 100% interoperability with other brands of CEC compliant devices.

Component Video

This is a video signal format that conveys each of 3 principal colors of light (red, blue and green) through different signal lines. This allows the viewers to experience picture colors as original as it is. There are several signal formats, including Y/Pb/Pr and Y/Cb/Cr.

Dolby Digital

The system developed by Dolby Laboratories to compress Digital sound. It offers stereo sound (2ch) or multi-channel Audio.

DTV (ATSC)

Acronym that stands for Advanced Television Systems Committee and the name of the Digital broadcasting standards.

E-sticker

E-sticker is showing set features, technical information, etc on this TV set that is displayed on the TV screen mainly used by TV retailers. Previously the information was on a printed sticker that was put on the display.

HDMI (High-Definition Multimedia Interface)

Interface that supports all uncompressed, Digital Audio/Video formats including set-top box, Blu-ray/DVD recorder or Digital television, over a single cable.

HDTV (High Definition TV)

Ultimate Digital format that produces high resolution and high picture quality.

PIN code

A stored 4-digit number that allows access to parental control features.

SAP (Secondary Audio Program)

Second-Audio channel delivered separately from main-Audio channel. This Audio channel is used as an alternate in bilingual broadcasting.

SDTV (Standard Definition TV)

Standard Digital format that is similar to the Analog TV (NTSC) picture quality.

SRS TruSurround XT®

Creates a truly immersive surround sound experience with rich bass and clear dialog from only two speakers.

Maintenance

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

Panel Cleaning

Wipe the panel of the unit with a soft cloth. Before cleaning the panel, disconnect the AC power cord.

Servicing

Should your unit become inoperative, do not try to correct the problem yourself. There are no user serviceable parts inside. Call our toll free customer support line found on the cover of this Owner's Manual to locate an authorized service center.

IR Signal Check

If the remote control is not working properly, you can use a Digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.



With a Digital camera (including built-in cell phone cameras): Point the Digital Camera towards the remote control infrared diode at the front of the remote control. Press any button on the remote control and look through the camera display. If the infrared pulsating light appears through the camera, the remote control is sending out an IR signal.

9 Specifications

Model #	32MV402X	26MV402X	22MV402X
Picture enhancement			
Type	WXGA (1366 × 768 pixels 60Hz)		
Aspect ratio	16:9		
Viewing angles	178° (V) by 178° (H)	150° (V) by 160° (H)	160° (V) by 170° (H)
Built-in Digital tuner	ATSC / NTSC		
Sound enhancement			
Mono / Stereo	Mono, Stereo, SRS TruSurround XT®		
Power output (RMS watts)	8 W × 2		2W × 2
Equalizer	5 band		
Ease of use			
Picture format	SD (4:3 Source) : Automatic / Super zoom / 4:3 / Movie expand 14:9 / Movie expand 16:9 / Wide screen HD (16:9 Source) : Automatic / 4:3 / Wide screen / Full (1080i/p only) HDMI AV (4:3 Source) : Automatic / Super zoom / 4:3 / Movie expand 14:9 / Movie expand 16:9 / Wide screen HDMI AV (16:9 Source) : Automatic / 4:3 / Wide screen / Full (1080i/p only) PC Source : 4:3 / Wide screen / Unscaled (Refer to HDMI AV (16:9 Source) above if PC has HDMI Output.)		
Photo Slide show	JPEG files only		
MP3 playback	MP3 files only		
Video playback	MPEG1(.mpg/.mpeg), MPEG2(.mpg/.mpeg/.vob), H.264(.mp4), MPEG4 SP / ASP(.avi), MPEG4(.mp4), WVC1(.wmv)		
Connections			
Component Video Input (Y/Pb/Pr)	1 supporting video signals : 480i/p, 720p, 1080i/p 60Hz		
Composite Video Input (shared Y terminal of Component Video)	1		
HDMI Input	3 supporting video signals : 480i/p, 720p, 1080i/p, 24Hz-60Hz HDMI-ARC (HDMI 1 only) PC-Input signal up to WXGA (1360 × 768)		
Audio L/R Input	1		
PC Input	via VGA, HDMI and HDMI-DVI + Analog Audio L/R		
USB	2 1 terminal mainly for wireless LAN adapter; both terminals function as a USB input terminal		
Wireless LAN	Supporting wireless standards : IEEE 802.11 b/g/n (2.4GHz)		
Ethernet port	1		
Digital Audio Output	1 supporting Dolby Digital		
Headphone Output	1 1/8 inches (3.5mm)		
Power			
Power requirements	120V~ AC +/- 10%, 60Hz +/- 0.5%		
Temperature			
Operating temperature	41 °F (5 °C) to 104 °F (40 °C)		

- Specifications are subject to change without prior notice.

10 Warranty

LIMITED WARRANTY NINETY (90) DAY LABOR / ONE (1) YEAR PARTS

WARRANTY COVERAGE:

This warranty obligation is limited to the terms as set forth below.

WHO IS COVERED:

This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:

This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the Warranty Period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in current inventory, or (3) refund the original purchase price of the product.

Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.

Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:

This Limited Warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product

or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This Limited Warranty does not cover:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE...

Contact the Customer Care Center at:
1 866 341 3738

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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